

ALLIED HEALTH: RADIOLOGIC TECHNOLOGY (AHXR)

AHXR 101 - Patient Care in Radiology. 2 Credits.

Offered autumn. Offered at Missoula College. All program pre-requisites must be completed, and student must be accepted into the program. Introduction to the concepts and practices necessary to provide quality patient care in the diagnostic imaging department. Course covers legal and ethical standards of care, basic nursing practices, infection control, venipuncture, and etc, as well as medications and contrast agents used in radiology.

AHXR 121 - Radiographic Imaging I. 4 Credits.

Offered autumn. Offered at Missoula College. All program prerequisites must be completed, and student must be accepted into the program. Introduction to physics of x-ray production. Includes introduction to field of diagnostic imaging and presents factors of image quality and exposure methods: density, contrast, recorded detail, distortion. Also includes introduction to digital imaging concepts.

AHXR 140 - Radiographic Methods. 4 Credits.

Offered autumn. Offered at Missoula College. All program prerequisites must be completed, and student must be accepted into the program. Course covers the knowledge and skills necessary for quality patient care during standard and specialty radiographic procedures, as well as an introduction to image evaluation.

AHXR 141 - Radiology Lab. 1 Credit.

Offered at Missoula College. All program pre-requisites must be completed, and student must be accepted into the program. Students will practice all patient positioning skills necessary for competency as Radiologic Technologists.

AHXR 160 - Radiographic Methods II. 3 Credits.

Offered spring. Offered at Missoula College. Advanced and less common radiographic procedures are introduced including fluoroscopy, surgery and various other procedures.

AHXR 161 - Radiographic Methods II Lab. 1 Credit.

Offered spring. Offered at Missoula College. Students will practice patient positioning skills necessary for competency as Radiologic Technologists.

AHXR 192 - Independent Study. 1-6 Credits.

Offered at Missoula College. Course material appropriate to the needs and objectives of the individual student.

AHXR 195 - Radiographic Clinical: I. 1-12 Credits.

(R-20) Offered over three semesters throughout the Radiology Technology program, beginning autumn semester. Offered at Missoula College. Students will begin with an introduction to patient management and basic radiographic procedures. The final semester offers opportunities in advanced patient management skills and experience with highly skilled radiographic procedures. Each semester builds on the previous semester, always emphasizing the principles of ALARA.

AHXR 221 - Radiographic Imaging II. 2 Credits.

Offered spring. Offered at Missoula College. Offers students more technical and detailed information on the use of image receptor systems, processing principles, and imaging modalities used in radiology.

AHXR 225 - Radiobiology/Radiation Protctn. 2 Credits.

Offered spring. Offered at Missoula College. Principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices.

AHXR 270 - Radiographic Registry Review. 2 Credits.

Offered autumn. Offered at Missoula College. An overview of imaging concepts as a review for the national certification test. Topics include a systematic approach for image evaluation, patient care, radiation protection and the physics of radiographic imaging.

AHXR 274 - Cross Sectional Anatomy. 3 Credits.

Course offered online spring semester. Offered at Missoula College. Students must be program graduates or ARRT certified with a current state license to register for the CT courses. This course will cover sectional anatomy (axial, sagittal and coronal planes), contrast media (types, contraindications, administration), imaging processes (scout acquisition and methods, parameter selection, protocol modification), and special procedures (reformatting, 3-D rendering, biopsies/drains, screening).

AHXR 275 - Physics and Instrumentation. 2 Credits.

Course offered online spring semester. Offered at Missoula College. Students must be program graduates or ARRT certified with a current state license to register for the CT courses. This course will cover information specific to ARRT guidelines in preparation for the Computed Tomography Exam. The course will be broken down in to the following sections: patient assessment and preparation, contrast administration, radiation safety, and dosimetry.

AHXR 291 - Special Topics. 1-6 Credits.

(R-6) Offered at Missoula College. Experimental offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

AHXR 292 - Independent Study. 1-6 Credits.

Course material appropriate to the needs and objectives of the individual student.

AHXR 295 - Radiographic Clinical. 3-24 Credits.

(R-22) Offered over two semesters in the Radiology Technology program: summer semester for 10 credits and fall semester for 12 credits. Offered at Missoula College. Students will begin with an introduction to patient management and basic radiographic procedures. The final semester offers opportunities in advanced patient management skills and experience with highly skilled radiographic procedures. Each semester builds on the previous semester, always emphasizing the principles of ALARA.

AHXR 298 - Internship. 1 Credit.

Offered at Missoula College. Extended classroom experience which provides practical application of classroom learning during placements off campus.