

Humanizing College Calculus: Centering the Voices of Latin*, Indigenous, LGBTQ+ and Women STEM Majors

Kelly MacArthur
Montana State University

Monday, April 25, 2022

2:00 - 3:15pm

***Hosted by the Department of Mathematics
and the Center for Science and Mathematics Education***

This event is in-person.

Location: JTB 310

Calculus sequences are frequently experienced as gatekeeper courses for STEM-intending students, particularly for students from groups that have been historically marginalized in mathematics including Black, Latin, Indigenous, LGBTQ+ and women. This presentation will report results from research conducted primarily at the University of Utah that explores attitudes of Calculus 2 students from the above-listed groups regarding what practices, pedagogies, and assessment structures feel humanizing to them, using the rehumanizing framework outlined by Gutiérrez (2018). The goal of this research is to elevate and understand the perspectives of students who are often ill-served and thereby impact future undergraduate teaching in positive and humanizing ways.*



Kelly MacArthur (she/her) is currently finishing her PhD at Montana State University in the Mathematical Sciences department, with a dissertation focused on undergraduate mathematics education. She also has a B.S. in Mathematics (Arizona State University), M.S. in Mathematics and Masters of Statistics degrees (University of Utah). Kelly was a career-line faculty member in the Mathematics Department at the University of Utah for 18 years, serving in various roles including Undergraduate Advisor, Course Coordinator for several classes, TA training facilitator and Assistant Chair. Her primary research focuses on impactful teaching practices that align with students' needs, particularly students from groups that have been historically marginalized in STEM disciplines.