



UW System Math Initiative

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UW SYSTEM MATH INITIATIVE

Professional Development Virtual Workshop

Active Learning for Equitable Instruction 2021

10 a.m.-noon, Monday to Friday, June 7-11, 2021

Math Initiative goals

- Increase enrollment in a math course in a students' first year
- Reduce the need for developmental mathematics courses
- Improve success of students in developmental and gateway mathematics
- Ensure transferability and applicability of gateway mathematics

Workshop objectives

- Discuss active learning guiding principles and their application to mathematics courses with specific attention to engagement, equity and evaluation
- Explore active learning strategies that are transferable between face-to-face and virtual mathematics courses
- Identify practices for your own courses through interactive peer presentations

Facilitators

- Jennifer Kosiak, Professor in the Department of Mathematics and Statistics at the University of Wisconsin-La Crosse, and Chair of the UW System Math Steering Committee
- Carrie Tirel, Associate Professor of Mathematics at the Fox Cities branch campus of the University of Wisconsin Oshkosh, and Vice Chair of the UW System Math Steering Committee

Monday, June 7, 10 a.m.-noon: Fostering Engagement, Participation, and Use of Student Thinking in the Mathematics Classroom

Focus: Investigate the four guiding principles for active learning and how these principles can be leveraged in the virtual and in-person mathematics classroom.

- Students' deep engagement in mathematical thinking
- Peer-to-peer interaction
- Instructors' interest in and use of student thinking
- Instructors' attention to equitable and inclusive practices

Tuesday, June 8, 10 a.m.-noon: Peer Presentations by UW Instructors

Focus: Join your UW Colleagues as they share tools, strategies, and lessons learned for building community, active learning, and student engagement in their recent courses.

- Agenda will be updated later with a list of presenters and their topics

Tuesday, June 8, noon-1:15 p.m.: Optional Brown Bag Networking Session

Wednesday, June 9, 10 a.m.-noon: Attending to Equitable and Inclusive Practices

Focus: Connect active learning principles to UW-Madison Professional Learning and Community Education (PLACE) equitable practices, and identify strategies for their implementation in the mathematics classroom.

- Foster students' math identities as math thinkers and doers
- Provide every student with challenges that leverage their strengths while pushing them to grow
- Promote meaning-making through discourse and justification
- Support students to see each other as capable, valuable learning partners
- Connect students' math learning and doing to their lives through "windows and mirrors" (Provide ways for students to be authors)
- Notice and name racism, sexism, classism, ableism, and other biases—and sit with our own discomfort as necessary for learning and transformation

Thursday, June 10, 10 a.m.-noon: Peer Presentations by UW Instructors

Focus: Join your UW Colleagues as they share tools, strategies, and lessons learned for building community, active learning, student engagement and assessment of student learning in their recent courses.

- Agenda will be updated later with a list of presenters and their topics

Thursday, June 10, noon-1:15 p.m.: Optional Brown Bag Networking Session

Friday, June 11, 10 a.m.-noon: Evaluating Mathematical Understanding and Closing

Focus: Analyze formative and summative assessment tasks through an equity lens and incorporate Steen's principles of assessment.

- Assessment is not a single event but a continuous cycle.
- Assessment must be an open process.
- Assessment must promote valid inferences.
- Assessment that matters should always employ multiple measures of performance.
- Assessment should measure what is worth learning, not just what is easy to measure.
- Assessment should support every student's opportunity to learn important mathematics.