UW System Math Steering Committee

Gateway course definitions and learning outcomes

Thursday, November 2, 2017

UW System Administration

Madison, WI

UNIVERSITY OF WISCONSIN SYSTEM

UW System Math Initiative

Welcome, fellow mathematicians and others interested in the University of Wisconsin System Math Initiative!

I hope you, too, are excited about the progress to date and plans underway. Faculty, staff, and administrators are collaborating to reduce the number of students placed into remedial courses, and help students successfully complete the appropriate first credit bearing math course in their first year.

We're not starting from scratch. We're building on many years of foundational work on student success in math at UW institutions, and we're adapting national models to fit our students and institutions' needs and goals.

We have a lot of work to do, and we invite you to follow along via this website.

James P. Henderson
Vice President of Academic and Student Affairs

Priorities

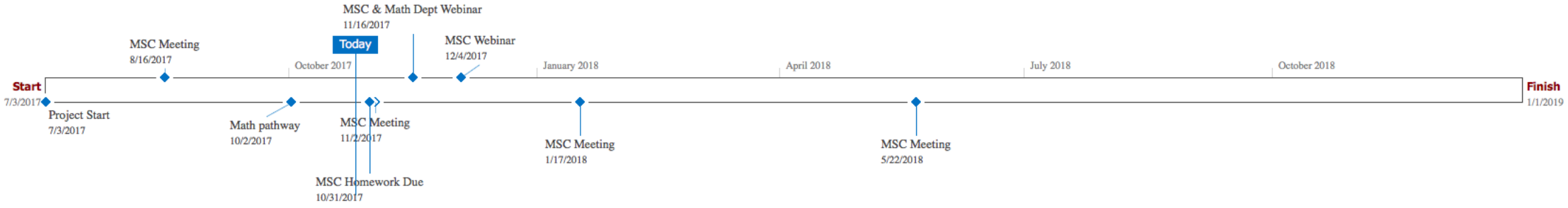
- **Reduce the number of students placed into remedial math courses.**
- **Improve the success of students in remedial math courses.**
- **Improve the success of students in their first credit bearing math courses.**
- **Ensure transferability of math courses.**

Strategies

- **Implement common cut score for math placement**
- **Use multiple measures for math placement**
- **Tailor math pathways to majors**
  - **Employ meta-majors**
  - **Offer alternatives to college algebra relevant to majors**
- **Implement evidence-based innovations in teaching, including for remedial math**

Project Timeline

Overview



Upcoming Events

Add An Event

Title	Location	Start Time
MSC meeting - Learning outcomes NEW	1920 Van Hise Hall, Madison, WI	11/2/2017
Moving Up Program - UW Whitewater NEW		11/16/201

Previous | Next

Add new event

Discussion Board

Ask A Question

new discussion

Recent | My discussions | Unanswered questions ...

Testing
Hello
By Alice Pulvermacher | 6 minutes ago

Homework for Nov. 2 meeting
Any questions about the homework for the...
By Sandra S Kallio | Yesterday at 3:15 PM

Upload and Create

Team Documents

New | Upload | Sync | Sl

Name	Modified
Document	About a minute
Gateway college algebra course definition 11.02.2017	Yesterday at 12
Gateway college algebra learning	Yesterday at 12

Meeting objectives

- Construct a working draft of a common definition and learning outcomes for each gateway math course
  - College algebra
  - Quantitative reasoning
  - Statistics
- Apply feedback from other committee members to revise definitions and learning outcomes

Where are we going?

- Develop common general descriptions and draft learning outcomes for gateway math courses
  - College algebra
  - Quantitative reasoning
  - Statistics
- Check-in for feedback from math departments on the draft descriptions and learning outcomes (3-3:45pm Dec. 4 call)
- Reach consensus on definitions and learning outcomes (10am-2pm Jan. 17, 2018 meeting)

Why common learning outcomes are important?

- Small group discussion
- Record

What kind of learning outcomes will help us get there?

- Small group discussion
- Record

Write course definitions and learning outcomes

- Small group work
  - College algebra
  - Statistics
  - Quantitative reasoning
- Review and comment on other group definitions and learning outcomes

Working lunch

- Review and consider feedback

Report out definitions and learning outcomes

- Report out to large group
- Finalize first draft in small groups
  - College algebra
  - Statistics
  - Quantitative reasoning

Next steps

- Vet definitions and learning outcomes with your math department
- Check-in for feedback from math departments on the draft descriptions and learning outcomes (3-3:45pm Monday, Dec. 4, 2017 webinar)
- Reach consensus on definitions and learning outcomes (10am-2pm Wednesday, Jan. 17, 2018 meeting)

Other meetings

- Whitewater Moving Up presentation (1-1:45pm Nov. 16, 2017 webinar open to all math faculty)
- Spring semester webinars
  - La Crosse MOOC presentation open to all math faculty TBD
  - Additional MSC webinars TBD
- MSC meeting in Madison (10 am-2 pm May 22, 2018)

The Big Picture: How will this get us to meta-majors?

Based on deconstruction of national models, Math Steering Committee will use a grassroots approach to create a Wisconsin model

- Decide which majors need which gateway course
  - Collect feedback from other departments to determine what set of math learning outcomes best suits their majors
  - Use this feedback to start sorting majors into math pathways
  - Begin defining meta-majors by grouping majors according to math pathway and other commonalities