

UW System Math Initiative

Welcome

March 28, 2018

Introduce Math Initiative project team

- Jim Henderson
- Jennifer Kosiak
- Carrie Tirel
- David Blough
- Sandy Kallio
- Alice Pulvermacher

Need for UW System Math Initiative

Math = degree completion barrier



- Mismatch of content
- Cost of extra credits
- Time to degree
- Attrition due to long course sequences
- Capacity for students needing college algebra
- Advising challenges
- Transferability and applicability

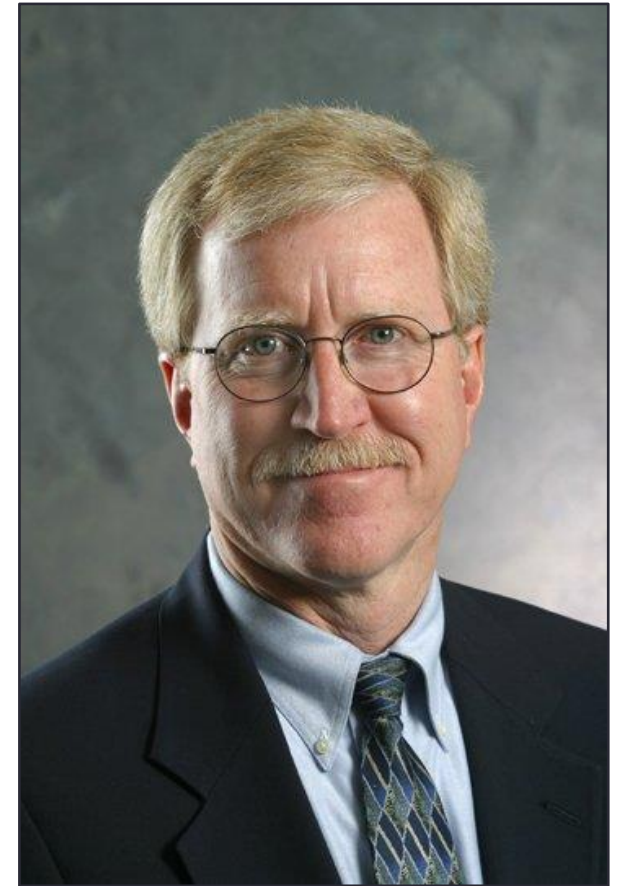
Math Initiative priorities

- Increase enrollment rates in math course in students' first year
- Reduce number of incoming students needing remedial math
- Increase the completion rate among students who require remedial math coursework
- Increase student success rate in the first credit bearing/gateway math courses
- Increase ease, transparency, and applicability of the transfer of first credit bearing/gateway math courses

UW System strategy

Get the right students in the right courses at the right time.

- Tailor the national model; don't reinvent the wheel.
 - 13,000+ new transfer students/year into a UW institution (from out-of-state, private, tech or other UW institution.)
- Focus is on applicability/transfer within UW System institution according to learning outcomes vs. credits.
- Provide three designated service courses for broad fields of study as gateways to broader goals.
 - Prerequisite knowledge for later coursework.
 - Higher order application of quantitative literacy skills for life and career.



James P. Henderson
Vice President of
Academic and Student
Affairs, UW System

Three year plan for Math Initiative

- Year 1 focus on initial sort for Arts & Humanities, Social & Behavioral Sciences, and STEM for Fall 2019 courses
- Year 2 focus on professional degrees such as Nursing, Business, and Education, as well as include outliers from Year 1 for fall 2020 courses
 - Examine prerequisite knowledge associated with the gateway math courses to align developmental coursework learning outcomes
 - Determine placement measures for statistics and quantitative reasoning
- Year 3 complete implementation of math pathways with system-wide consensus for fall 2020

Meta-Major \Rightarrow Gateway Math Pathway

Arts &
Humanities

Gateway Math:
Quantitative Reasoning

Social and
Behavioral
Sciences

Gateway Math:
Statistics

STEM

Gateway Math:
College Algebra

Year 1 technical support provided

- External support provided by the Dana Center March – August
 - April pre-work webinar for Institutional Change Team leaders and data analysts and Math Steering Committee members
 - May 23-24 Institutional Change Team workshop
 - Aug. 23-24 Institutional Change Team workshop
- Internal support
 - Facilitate regularly scheduled webinars with ICT leads
 - Facilitate regularly scheduled webinars with ICT data analysts
 - Conduct summer site visits with Institutional Change Team and Math Team
- Additional 1:1 support for summer ICT work as needed
- Technical support for faculty and advisors Fall 2018 – Spring 2019

Year 1 Institutional Change Team work

- Participate in April 17, 2018 pre-work webinar 1:30-3 p.m. for ICT leads and data analysts and MSC members
- Participate in May 23-24, 2018, meeting preparing teams to engage faculty across departments (summer 2018) to shape meta-majors that align with gateway math courses for the three identified pathways
- Engage, in summer 2018, academic disciplines (3 broad areas identified) to begin sorting majors by gateway math course learning outcomes at home institutions
- Participate in Aug. 23-24, 2018, meeting to reach systemwide consensus on initial sorting, plan implementation steps, and identify other stakeholder groups to engage for implementation
- Revise, as needed, gateway math courses for fall 2019
- Develop or revise advising tools for students enrolling fall 2019
- Participate in professional development provided by UW System Math Initiative

Introduce ICT leaders and MSC members

- Math Initiative role
- Institutional title
- One strategy to engage faculty this summer from Arts & Humanities, Social & Behavioral Sciences, and STEM

Reminders

- Accept your invitation to our Math Initiative SharePoint site
- Participate in April 17, 2018 pre-work webinar 1:30-3 p.m. for ICT leads and data analysts and MSC members
- Participate in May 23-24, 2018, meeting preparing ICT teams to engage faculty across departments (summer 2018) to shape meta-majors that align with gateway math courses for the three identified pathways
- Site visits this summer – late May to mid-June

“This is hard work. If it were easy, it would have been done a long time ago—because it is the right thing to do for our students.

“I have faith that we can do this together and do it well.”

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**Jenn Kosiak, MSC Chair
and UW-La Crosse
Mathematics Professor**