

# UW System Math Steering Committee

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# Welcome

# Meeting Objectives

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- Recognize work already being done to improve math completion at institutions
- Build on understanding of multiple measures for placement, math pathways, and meta-majors to support student success
- Nominate and elect Math Steering Committee Chair and Vice-Chair
- Determine next steps to reach System math initiative goals

# Introductions

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- Name, Title, and Institution
- What do you most hope to gain from participation in this group?

# Ground Rules for Math Steering Committee

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- Take responsibility for the quality of the discussion by participating actively
- Build on one another's comments; work toward shared understanding
- Keep your contributions on topic so that we are all going in the same direction
- Disagree without being disagreeable
- Treat everything you hear as an opportunity to learn and grow

# UW System Math Initiatives

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Jim Henderson

Vice President for Academic and Student Affairs

August 16, 2017

# 4 Major Priorities:

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1. Reduce the number of students placed into remedial math courses
2. Improve the success of students in remedial math courses
3. Improve the success of students in their first credit bearing math course
4. Ensure transferability of math courses

# Initiatives:

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- I. Set a common cut score for math placement test:
  - a. Any student scoring at or above the common cut score is guaranteed not to be placed into a remedial math course at ANY UW campus
  - b. A student scoring below the cut score will have their placement determined through use of multiple means of assessment, resulting in an appropriate placement that may or may not be in a remedial course

# Initiatives:

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- II. Offer Assistance to Campuses in Developing Multiple Measures of Assessment Placement
  - a. Provide a grant of up to \$25,000 to facilitate the development of placement processes
  - b. Offer the support of the Office of Policy and Research at UW System to support data analysis



# Initiatives:

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## III. January 2017 Workshop on Math Remediation

- a) Presentations from Dana Center, Tennessee Board of Regents, U of Maryland
- b) Evidence of approaches that work:
  - i. Meta-majors for incoming students
  - ii. Math pathways designed for meta-majors

# Next Steps:

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- A. Increase use of multiple measures for placement and the associated advising
- B. Develop meta-majors and implement for each campus

# Next Steps:

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- C. Develop math pathways for each meta major
- D. Ensure that the newly developed math pathways courses have straightforward transferability across the UW System

# Multiple Measures for Placement

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- What are multiple placement measures?
- Evaluation/assessment
- UWSA resources
- Challenges
- Implementation

# What is a Math Pathway?

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“. . . a mathematics course or sequence of courses that students take to meet the requirements of their program of study.”

Dana Center presentation at January 2017  
workshop

# What is a Meta-Major?

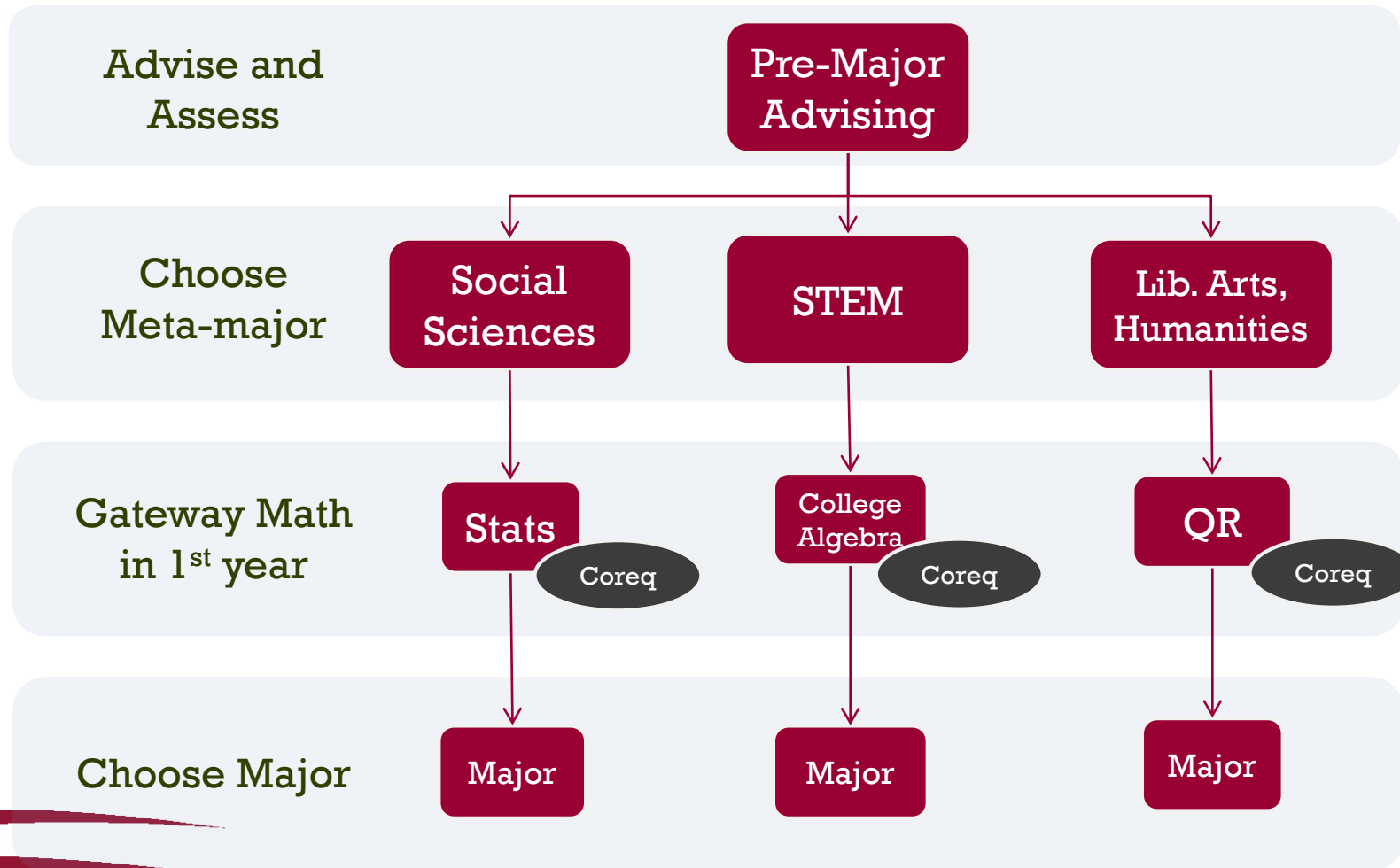
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“Essentially, a meta-major is a designed program of courses that crosses different majors and fields but with similar content—focusing on, say, health sciences or STEM or liberal arts.

“The program creates a clear pathway toward a variety of careers (and majors, UW System would add), but features a level of freedom that gives students ample room for exploration.”

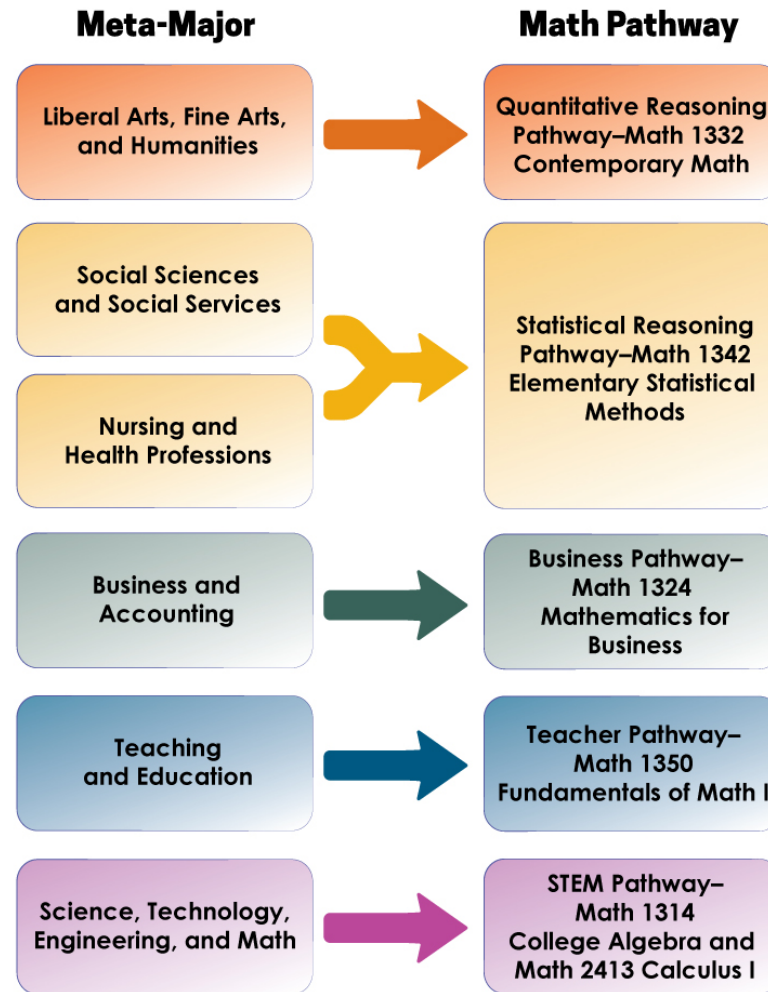
The California State University, September 2016

# A Model Pathway



Adapted from Complete College America  
2016 Dana Center presentation January  
2017

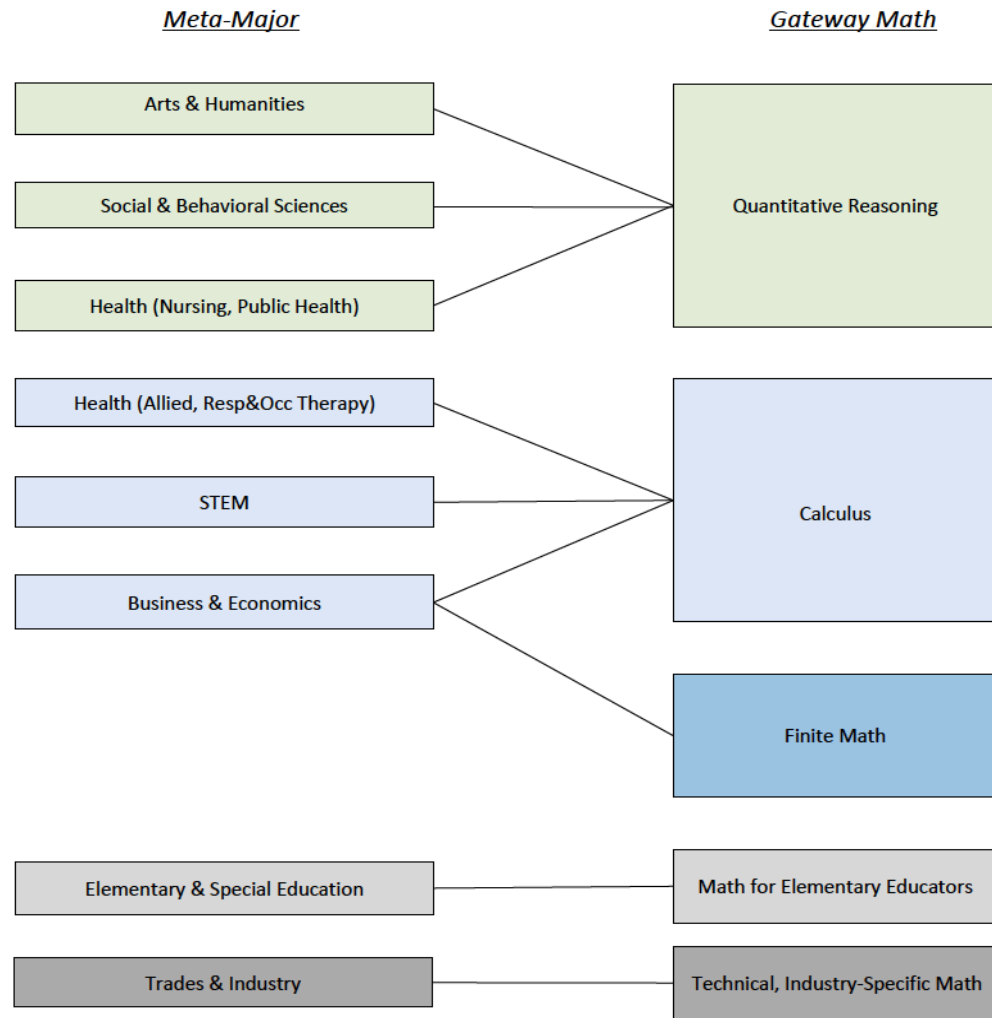
# Emerging Texas Math Pathways



Dana Center presentation at January 2017 workshop



# Emerging Indiana Math Pathways



Dana Center presentation at January 2017  
workshop

# Sample Math Pathways List

Algebra pathway	Quantitative Reasoning (QR) pathway	Statistics pathway
Architecture	Administrative Asst. Specializations	Archaeology
Astronomy	Anthropology	Accounting Specialist or Tech
Environmental Science	Applied Arts and Sciences	Criminal Justice
Psychology (at some colleges)	Applied Behavior Analysis	Dental Hygiene
Biochemistry	Applied Technology and Performance	Ecology for Environmental Science
Biology	Improvement	Environmental Studies or Technology
Business degrees	Art History	Geography
Chemistry	Automotive Technology	GIS
Computer Science	Broadcast Media	Government**
Economics	Classics	Health Promotion**
Engineering degrees	Communications	Health Studies**
Mathematics	Computer Programming	Health Information Technology**
Physics	Culinary Arts	Human Resource Development
Some Education degrees	Dance	Industrial Technology
	Design: Fashion, Interior	Kinesiology
	Development and Family Studies	Management
	Digital Retailing	Medical Laboratory Sciences
	Emergency Admin and Planning	Merchandising

Dana Center presentation at January 2017 workshop

# Developmental and Remedial Education

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- Website created
- <https://www.wisconsin.edu/developmental-remedial-education/>
- Resources from math workshop – January 2017
- Updates on projects and initiative

# UW-Milwaukee Presentation

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- Carnegie Math Pathways
  - What success have they been seeing and what have they learned so far?
  - What more do they need to know or further explore?
  - What are some of UWM's strengths and weaknesses – how do they help or hinder the situation?
  - What are the next steps?

# Working Lunch

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Review math maps/course pathways that your peers are currently using at their institutions

- Make sure to connect with 2 other people
- Look for ways institutions support student success
- Consider math pathway possibilities
- Are multiple measures being used



# How to address System math initiative goals

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- What are your observations about how students are doing in remedial and credit bearing math courses?
- What is your institution currently doing to support student success in math?
- How could a math pathway and the creation of meta-majors help students to become more successful?
- What steps could you take at your institution to work toward the creation of math pathways and meta-majors?
- What support would you need from System to make it happen?

# Nominate and Elect Math Steering Committee

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- Chair
- Vice-chair

“You cannot change your destination overnight, but you can change your direction overnight.”

Jim Rohn





# Next Steps

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- What are our next steps?
  - What do we need to start, stop, or continue doing?
- What is relatively easy to do – what is the low-hanging fruit?
- Who is going to do what?
- What will it take?
- Who else should be involved?

# Closing

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- Meet quarterly – Next meeting in November
- Fall 2017 workshop