Using Backward Design to Map Math Corequisite Support

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COMPLETE COLLEGE AMERICA

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Big Picture

- Identify the desired result.
- Determine how you will measure success.
- Design with the end in mind.





Economic Opportunity and Social Mobility



Goal: Students Will Have Economic Opportunity and Social Mobility Measured by Whether Students Complete Meaningful Credentials Design Degrees and Credentials Aligned to Careers and Support Students in Completing



What is our goal for Math?







Increased Student Completions Improved Student Experience Better Prepared Students



At the course level...what are your goals?



Students are prepared for future courses in the program.





Course Level

Learning **Outcomes for** College, Program of Study, and Course



Goal: Learning Outcomes

Measured by Assessments Aligned to Goals Design Learning Activities to Support Students in Being Successful on Assessments



Role of Corequisite Course

Enable students to be successful in their college-level mathematics courses. Just in Time skills and knowledge

Mindset

Support and be relevant to the learning objectives of the gateway/parent course.

Topics not needed for the parent course are not included.



- Identify Desired Learning Outcomes for Parent Class.
- For each Parent Class Outcome, identify prerequisite skills and competencies.
- Identify learning activities, practices, and strategies to help students achieve parent class learning outcomes that either embed activities to support prerequisite skills or in parallel with prerequisite learning activities occurring "just in time."









Differentiating between having high standards and high failure rates.



What is the "new" role of technology?



Some Questions for STEM

What does backward design look like in the STEM pathway?

What are reasonable readiness competencies for Calculus?

What are the limits of knowledge transference?



A Story About Guinea Pigs

Daughters' POV: We can plan for and mitigate these obstacles.





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My POV: We don't need pets – why would we turn our lives upside down for them?





A Story About Guinea Pigs

Daughters' POV: We can plan for and mitigate these obstacles.

My POV: We don't need pets – why would we turn our lives upside down for them?

My Husband's POV: They need a home, other people have figured it out, we will too.





Questions



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