Florida Mathematics Re-Design

Charge

Explore complex issues surrounding mathematics pathways to prepare: high school students for transition into postsecondary; Florida College System students for success in gateway courses aligned to their programs; and Florida College System students for transition into four-year universities.

Guiding Values

Transparency, collaboration, respect, diversity, evidence-based inquiry

Deliverables

1) Cataloging evidence-based practices designed for scale
2) Developing recommendations for state policy and institutional policy and practice around mathematics re-design

Members

- ~25 faculty and administrators per workgroup representing K-12, Florida College System and State University System

- ~40 members at-large who will engage through newsletters and webinars and submit feedback in the collection of evidence-based practices and policy recommendations

Workgroup Chairs

Professor Cynthia McGinnis
Northwest Florida State College
Chair: High School to Postsecondary Alignment

Dr. Julie Phelps
Valencia College
Chair: FCS Mathematics Sequences

Dr. Tommy Minton
Seminole State College of Florida
Chair: College to University Alignment

Milestones

- Milestone 1: Defining the Challenges (Pre-Work)
- Milestone 2: Prioritizing the Challenges
- Milestone 3: Gathering Information
- Milestone 4: Linking Challenges and Solutions
- Milestone 5: Prioritizing Solutions
- Milestone 6: Drafting Policy Recommendations & Best Practices
- Milestone 7: Share Policy Recommendations & Best Practices

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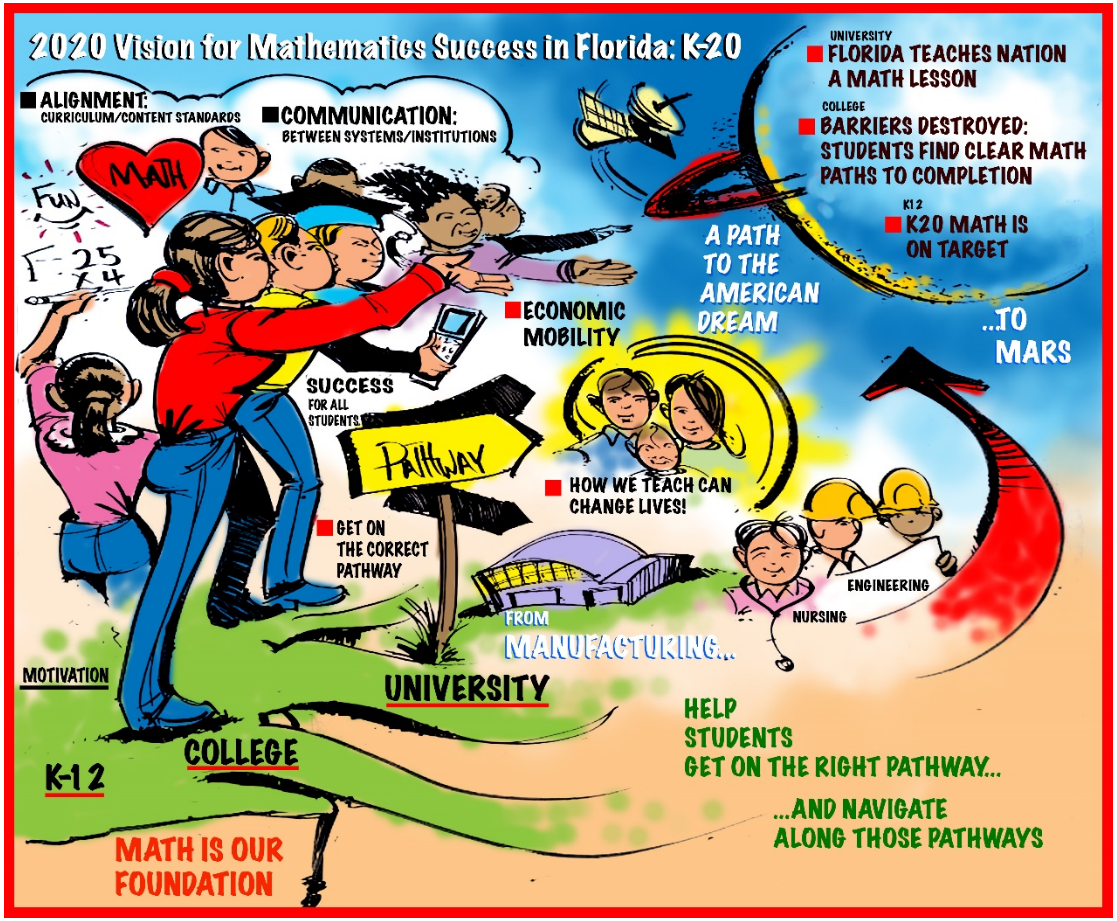
Florida Mathematics Re-Design- September 18th Kick-Off Meeting



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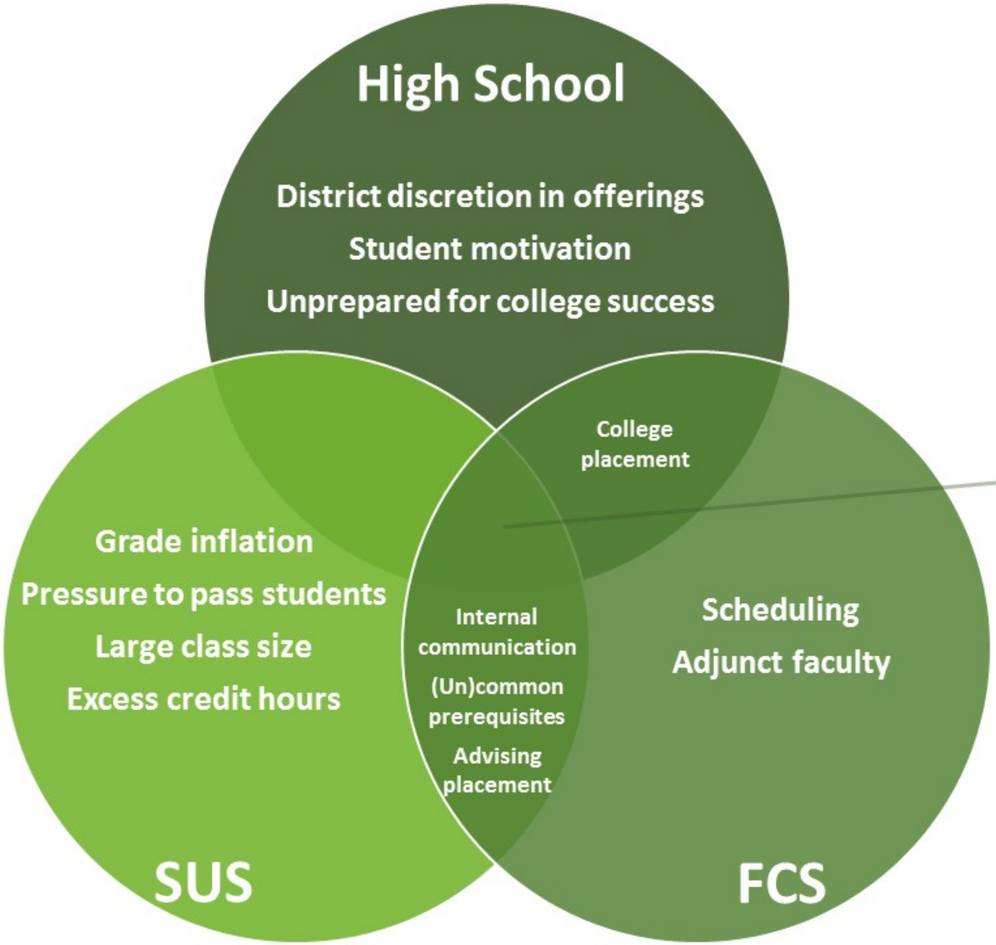
Milestone 1: Defining the Challenges

Results from the Mathematics Re-Design Pre-Meeting Survey

Purpose of the Survey

- To gain perspectives about the challenges with implementing mathematics re-design and pathways across:
  - high school to postsecondary
  - FCS mathematics sequences
  - college to university alignment
- To inform the work of the Florida Mathematics Re-Design Workgroups

Identifying Commonalities



Shared

Ambiguity in sequencing

Student indecision re: college or program

Misalignment/ miscommunication between systems

No algebra alternatives

One-size-fits-all pedagogy

Lack of fundamental understanding of math

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Milestone 2: Prioritizing the Challenges

Prioritization Exercise Objective

- To identify the top challenges related to mathematics pathways re-design implementation the workgroup will focus on throughout the year
- For each challenge identified, the workgroup created huddles
- Huddles are small working groups that will do the deeper dive of gathering information about the challenges and identifying potential solutions.

Huddles

High School to Postsecondary Alignment	FCS Mathematics Sequences	FCS to University Alignment
Content alignment from elementary to college	Foundation preparedness	Communication about desired math outcomes for degree programs
Professional development for math teachers	Multiple sequences/pathways	Alignment of course content
Advising students into math sequences & career paths	Ambiguity of math sequencing resulting in content overlap	Advising of math pathways
Improving fundamental math skills & concepts	Placement, advising misplacement & single measure of college readiness	Aligning prerequisites for courses between institutions
Assessment of students	Revisit prerequisites for commonality	

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Highlighted = overlap