

# *Suggestions for the Improvement of the State College-to-University Prerequisites Standards*

- Florida College System to University Alignment
- Huddle 4



# Huddle 4 Presentation

- Florida College System to University Alignment
  - The FCS to University Alignment workgroup will:
    - Examine FSC curriculum alignment with university mathematics course content, particularly for students in transfer programs, as well as university admissions requirements and appropriate mathematics pathways for admissions.
    - Analyze longitudinal student data on mathematics sequencing and student success rates and engage FCS and university faculty in dialogue about postsecondary and career expectations.
    - Identify evidence-based practices that prepare students for successful progression to an upper-division baccalaureate program.
  - Huddle 4 was charged with determining whether alignment of prerequisites for courses between the state colleges and the SUS has the potential to create roadblocks for transferring students, and if so, to suggest possible solutions.



# Our Process

- Brainstorming the problems.
- Research
- Solutions



Recommendation	Type	Strategy
<p>1. Implement mathematics pathways by aligning mathematics courses to programs.</p>	<p><input checked="" type="checkbox"/> Policy  <input type="checkbox"/> Practice  <input type="checkbox"/> State  <input checked="" type="checkbox"/> Local</p>	<ul style="list-style-type: none"> <li>• Create a STEM pathway, a Quantitative Reasoning pathway (Dana Center), and a Business/Statistics pathway. <ul style="list-style-type: none"> <li>• STEM pathway to include MAC1105 through MAC2311-MAC2313 depending on major.</li> <li>• Business/Statistics pathway to include MAC1105 to MAC2233 and an introductory statistics course. Undecided students will initially be placed on this pathway.</li> <li>• Quantitative reasoning pathway to include MGF course(s) and optional STA course.</li> </ul> </li> <li>• Meet with individual departments to determine the appropriate pathway for each major.</li> </ul>
<p>2. Implement a common set of prerequisite courses for the state numbering system.</p>	<p><input checked="" type="checkbox"/> Policy  <input type="checkbox"/> Practice  <input checked="" type="checkbox"/> State  <input type="checkbox"/> Local</p>	<ul style="list-style-type: none"> <li>• Form a committee to review listed prerequisite courses for the state numbering system. This committee should represent state colleges, universities, and other stakeholders from each geographic region.</li> <li>• The committee should determine prerequisites for each course in the state numbering system and communicate these prerequisites with institutions.</li> </ul>

## GOALS:

- To a consistent prerequisite pathway and math requirements for students in every major.
- To provide a seamless transition from state college to state university.
- To eliminate barriers to success for Florida students.



## Recommendation 1: Implement mathematics pathways by aligning mathematics courses to programs.

- Identify math competencies by program
- STEM Pathway
- Business/Statistics Pathway
- Quantitative Reasoning Pathway



## Recommendation 1 (Continued)

- **Identify math competencies by program**
  - Form a committee to meet with discipline-specific faculty to identify mathematical skills and/or concepts needed in each program of study.
  - Committee should include members of the FCS and SUS from different geographic regions of Florida.
  - Programs considered should include FSC and SUS degrees, certificate programs, and meta-majors.

## Recommendation 1 (Continued)

- **STEM Pathway**

- This pathway is designed for students in STEM majors. It may begin with MAC1105 College Algebra and go through MAC2311-MAC2313 Calculus I, II, or III, depending on major.





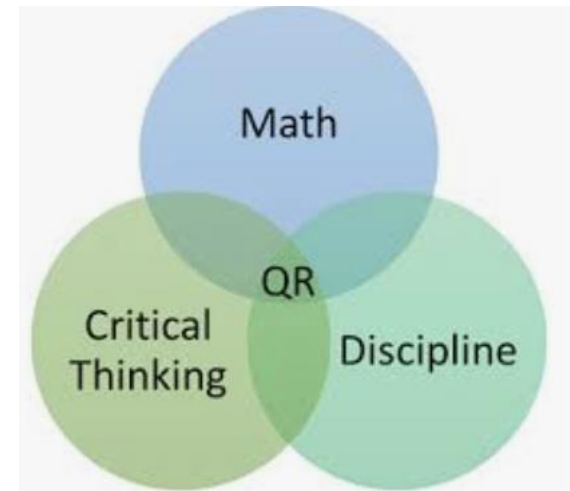
## Recommendation 1 (Continued)

- **Business/Statistics Pathway**
  - This pathway will include MAC1105 College Algebra to MAC2233 Business Calculus and an introductory statistics course. This pathway could also serve as an initial placement for undecided students.



## Recommendation 1 (Continued)

- **Quantitative Reasoning Pathway**
  - This pathway will include MGF course(s) and an optional introductory STA course. Programs can select whether the STA portion of this pathway will be required.



## Needs for Recommendation 1:

- Commitment from all levels
- Formation of a workgroup to communicate with institutions about math pathways and support during the implementation process.
- Provide professional development for advisors and faculty. Including supporting institutions in implementation of training for advisors on the new pathways. Include information about student success in a system with math pathways.

## **Recommendation 2: Implement a common set of prerequisite courses for the state numbering system.**

- **Appoint review committee**
- **Committee to determine prerequisites**
- **Professional development**

## Recommendation 2 (Continued)

- **Review Committee**

- Form a committee to review listed prerequisite courses for the state numbering system. This committee should represent state colleges, universities, and other stakeholders from each geographic region.



## Recommendation 2 (Continued)

- **Committee responsibilities:**
  - The committee should consider removal of MAT1033 as a prerequisite for the following courses: STA2023, MGF1106, & MGF1107.
  - The committee should revise the Florida Statewide Course Numbering System and Common Prerequisites Manual to include courses most closely aligned with the programs of study utilizing the pathway for the course.

## Recommendation 2 (Continue)

- **Professional development:**
  - Provide professional development for advisors and faculty. Including supporting institutions in implementation of training for advisors on the new pathways and prerequisites. This professional development can be combined with recommendation 1.



## Needs for Recommendation 2:

- Commitment from all levels
- Support for the committee tasked with review of prerequisite courses.
- On-going time and monies to provide opportunities to complete the alignment and training for faculty



## Thank you! Huddle 4 Team Members

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