Foundation Preparedness

Huddle Members: Kelly Brooks, Rachid Ait Maalem Lahcen, Joanne Mechmech, Kathryn Pantelis, Robert Sandbach, Carrie Stevens
College Ready

Being ready for college means that a high school graduate has the knowledge and skills necessary to qualify for and succeed in entry-level, credit-bearing college courses without the need for remedial coursework.
Factor 1: State standards in developmental mathematics courses are too broad.

Lack of understanding of basic arithmetic and algebra skills necessary to be prepared for college-credit mathematics courses.
Identify essential learning outcomes within the state requirements.
Advantages

- Awareness of essential mathematical outcomes
- Consistency of instructional practices statewide
- Communication between K-12 and college-level educators
Disadvantages

- Significant requirement of effective communication, time and resources to reach a consensus
- Challenging to ensure representation from all stakeholders
Factor 2: Need for identification of common mathematical processes

Mathematical processes such as problem solving, reasoning and proving, reflecting, selecting tools and computational strategies, connecting, representing, communicating

*Understanding technology’s pros and cons when addressing mathematical processes
Advantages

- Awareness of essential mathematical processes
- Consistency of instructional practices statewide
- Communication between K-12 and college-level educators
- Improvement of students’ internal motivation through emphasis on mathematical relevance
Disadvantage

- Difficult to Measure
<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Strategy</th>
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<tbody>
<tr>
<td>1. Establish a Mathematics Foundations Committee including representatives</td>
<td>➢ Review and revise developmental mathematics state standards and identify essential standards.</td>
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<td>from the three main levels of education: K-12, State College and University</td>
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<td>educators and administrators to begin working immediately to:</td>
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<td>2. Establish a mathematical process expectations document that outlines best</td>
<td>➢ Identify essential mathematical processes, such as problem solving,</td>
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<td>practices and applications.</td>
<td>reasoning and proving, reflecting, selecting tools and computational</td>
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<td>strategies, connecting, representing, and communicating.</td>
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<td>➢ Propose strategies to implement mathematical processes.</td>
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Why does this recommendation need to be implemented?

- Since Senate Bill 1720 went into effect, the Florida state college system’s approach to meeting the needs of underprepared students has changed while the state standards have yet to be reviewed in order to align with these changes.

- Lack of emphasis on mathematical processes

- Need for targeting essential standards and learning processes necessary for success in gateway mathematics courses
Every student can learn, just not on the same day or in the same way.

George Evans
Questions

Email jmechmec@fscj.edu

Professor Joanne Mechmech
References

Voluntary Remediation in Florida: Will It Blaze a New Trail or Stop Student Pathways?
https://doi.org/10.1080/10668926.2015.1134361

Flip-Flop on Florida Colleges

The Importance of Developmental Education in Rural Communities

Increasing Momentum for Student Success: FSU

The Underprepared Student and Community Colleges