



Mathematical Preparation Needed for College and Career Readiness

Goals of this session:

- **Vision** – Think about what could be, should be.
- **Reality Check** – Learn more about what's happening on the ground in Iowa schools and colleges.
- **Communication** – To promote smoother mathematical transitions within and between educational sectors.

You will discuss these questions:

1. What algebra is necessary for college and career readiness?
2. What statistics is necessary for college and career readiness?
3. What about developing mathematical habits of mind?
4. What is happening at your school, at your level, and in your classes, with algebra, with statistics and data science, and with developing students' mathematical habits of mind? How does this affect the mathematical transitions between high school and college and work?

To launch the discussion, consider these issues:

1. What mathematics is needed in life and work beyond high school and college?
 - Maybe we math people overestimate this? (just a light-hearted movie clip)
2. What mathematics skills do Iowa colleges want/expect from incoming students?
 - It's more about math habits of mind and practice than specific algebra skills. (IHEMTAC document)
3. Is Algebra 2 in high school an admission requirement for Iowa colleges?
 - Not so much. (Regents, privates, community colleges)
4. Is Intermediate Algebra a common prerequisite for many Iowa college courses?
 - Less and less, fewer remedial algebra courses, more full-credit no-prereq math courses.
5. How much statistics is required/expected in Iowa colleges?
 - More and more. Which is a good thing, but also raises new challenges, like: How much? DFW rates?
Creating a new barrier?

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Begin with Question 4 ...