A New Delivery Model for MATH111 Spring 2017

**CONTEXT**

**CSM Requirements**
Students must take MATH111 (Calculus I) as it is a prerequisite for other courses
- C or better required for credit and to enroll in MATH112 (Calculus II)

**History**
“Trailer” section in Spring
- 94% of students in “Trailer” previously took MATH111 at CSM
- 492 students took “Trailer” course over the last 5 years
- In recent implementations -75 students per year enrolled in 3 sections
- Upon completion of “Trailer” section, 95% of students receiving DFW took MATH111 at CSM previously
- Students eventually run out of courses they can enroll in

**WHAT WE ARE CHANGING**

**New Delivery Model**
- (5 min) Daily i>Clicker Quizzes
- (20 min) Lecture
- (25 min) Simultaneous Student Board Work

Encourage a supportive community through positive peer and instructor interactions and feedback on board work

Promote CASA workshops and “Bounce Back” course

**INTENDED OUTCOMES**

- Improve **Student Life Skills**
  - Prerequisite Math Skills
  - Attendance
  - Study Skills
  - Student Motivation
  - Test Taking Abilities

- by promoting “Bounce Back” course and incentivizing attendance at CASA workshops

- Build a sense of community through group structure

- Improve DFW rate

- Positively impact student persistence and university retention

Students who need the most assistance are probably the least likely to seek it.

“I never anticipated that a workshop could be so simultaneously exhausting and energizing!”

Holly Eklund is a Teaching Associate Professor in the Department of Applied Mathematics and Statistics. She has been teaching at CSM since 2005 and previously taught secondary school in Routt County and Jefferson County. She is very interested in improving the student experience for underrepresented minorities and first generation students in STEM.

June 2016 Cohort