

## MATH 153.003 Spring 2013

Instructor: Dave Keller

Room: Bouillon 109, 12-12:50 p.m.

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Office: Hertz 112

Office Hours: Mon-Thurs 8-10 a.m.

### Special Points of Interest:

Homework quizzes will be announced and the daily homework may be used during the quizzes. (Worth 20 points).

A handwritten  $\frac{1}{2}$  sheet may be used on tests.

There will be at least 3 exams over selected units this quarter.

Math modeling assignments and other graded assignments will be given.

Grades are weighted:

Homework & Project – 10%   Quizzes – 20%   Tests – 50%   Final – 20%

**Grades:** **A**(93-100%), **A-**(90 up to 93%), **B+**(87 up to 90%), **B**(83 up to 87%), **B-**(80 up to 83%), **C+**(77 up to 80%), **C**(73 up to 77%), **C-**(70 up to 73%), **D+**(67 up to 70%), **D**(63 up to 67%).

### Course Summary:

This class is a course that helps prepare students to take Calculus and Calculus based science courses. Tests and homework assignments reflect the ability of students to handle rigorous assessments at the University level.

### Goals:

1. Analyze functions and equations numerically, algebraically, and graphically.
2. Modeling real world problems with appropriate functions.
3. Understand the transformations of functions and connections between functions.
4. Using technology to help solve problems, experiments, interpret results, and verify conclusions.
5. Determine the reasonableness of solutions, including sign, size, relative accuracy and units of measurement.
6. Appreciating that the procedure is as important as the answer and that a variety of procedures can be used to solve most problems.
7. Communicating language in both every day and mathematical language.