

# CALCULUS 2 (MATH 2260) FALL 2014

INSTRUCTOR: DANIEL KRASHEN

## BASIC COURSE INFORMATION

- Lectures: TuTh 12:30am-1:45pm, Hardman Hall 102
- Recitation: W 12:20am-1:10am, Boyd Graduate Studies 303
- Office Hour: W 1:10pm-2:00pm
- Office Phone: 706-542-2555
- Email: [dkrashen@uga.edu](mailto:dkrashen@uga.edu)
- Course Webpage: <http://dkrashen.github.io/calc2/>
- Textbook: *University Calculus*, Hasse, Weir, Thomas (2nd edition)
- Other resources: *University Calculus*, Hasse, Weir, Thomas (1st edition); *Funny Little Calculus Text*, Ghrist; *Coursera Course - Calculus: Single Variable*; Ghrist; Penn Calc WIKI

## COURSE OBJECTIVES/TOPICS

- (1) Integration
  - (a) review of integration, u-substitution
  - (b) further techniques of integration: parts, trig identities and trig substitutions, partial fractions
  - (c) applications of integration: areas, volumes, arclength, work
  - (d) improper integrals
- (2) Sequences and Series
  - (a) limits, convergence
  - (b) tests for convergence: integral, comparison, ratio, root
  - (c) power series, Taylor and Maclaurin series
- (3) Vectors

## GRADING POLICY

- 3 Mid-semester exams worth 20% each (Tentative Dates: Sep 4, Oct 2, Nov 6)
- Homework worth 15% (lowest 2 scores are dropped),
- Final exam worth 25%.

## ACADEMIC HONESTY

As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, A Culture of Honesty, and the Student Honor Code. All academic work must meet the standards described in A Culture of Honesty found at: <http://ovpi.uga.edu/academic-honesty>. Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

*The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.*