

Meeting Times: MWF 12:20 - 1:10 pm in Life Sciences Building C122

Text: *Calculus - Early Transcendentals Version* (6th ed.) by Edwards & Penney

Instructor: Dr. Jerome Jungster

Office Hours: MF 2:00 - 3:10 pm & MWF 4:45 - 5:45 pm, in Boyd 506

Phone: 542-0884 (magically changing to 542-2642 at unknown date)

e-Mail: jerome@math.uga.edu

Attendance Policy:

There is no attendance policy - come to class as you wish. DO NOTE, however, that I will *liberally* deviate - in order to make calculus more comprehensible to you - from the presentation in the textbook and, in particular from the *order* of topic presentation in the text. On the exams, you are responsible for everything demanded in the homeworks (problems taken from the text) *as well as* everything presented in class lectures. Missing class is highly unrecommended, but the choice is yours.

Grading:

- (1) 3 one-hour tests, each contributing 22% towards your final grade;
- (2) a "Pre-Final" exam that you may take at your option - more on this below;
- (3) Final Exam (3 hours allotted): 34% of final grade. [Final Exam: Wed. Dec. 10 noon-3:00 pm]

The "Pre-Final" serves two nice purposes:

- (i) gives you practice for the Final Exam, a week to 10 days later;
- (ii) can be used to make up (substitute for) a low grade on your hour exams.

Note: The Pre-Final is a "no penalty" exam. If you take it, we will simply use your three *highest* scores from among the three hour-exam and the Pre-Final scores to act as your hour-exams grade.

Course Focus:

- a) Understanding calculus in a *geometric* way, as presented in the lectures;
- b) Gaining Perspective from the geometrical approach;
- c) Seeing this perspective evolve into the Concepts of calculus;
- d) Learning and mastering (through practice) the Computational Skills that arise, by choice or necessity, from these concepts;
- e) Learning the Applications of these concepts, which involves intensive use of the computational skills, to "real world" problems;
- f) Learning Methods for working the applications - the step-by-step procedures for solving applications problems successfully. (To help you succeed, the lectures will present methods that supplement or replace those in the text.)

Benefits:

- Gaining a solid grasp of mathematics essential for business, physical sciences, and life sciences majors
- *Understanding one of the profound achievements in human thinking, the Calculus.*