

## MATH2260 - Calculus II for Science and Engineering

SECTION 04-479, FALL 2009

**Instructor:** Jeremy Wong

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Office Hours: to be determined

**Lectures:** MWF, 10:10-11:00 a.m. in Conner (bldg. 1011) room 210  
and Wednesdays 1:25-2:15 p.m. in Boyd room 222

**Course Webpage:** <http://www.math.uga.edu/~jwong/teaching/math2260.html>

**Textbook:** *University Calculus*, by Hass, Weir and Thomas (Pearson Education Inc./Addison Wesley 2007, ISBN 0-321-35014-6).

### **Course Information:**

Calculus is one of the greatest creations of science, forming the foundation for many theoretical as well as applied fields, and grounding the study of differential equations and higher analysis.

The central focus of this course is integration, which is a type of summation. Topics to be discussed include applications of definite integrals to computing volume of solids, lengths of curves, surface area, as well as physical applications to exponential growth, work, center of mass. We will also study techniques of integration, improper integrals, infinite sequences and series, various tests for convergence and if there is time, a little numerical integration. Towards the end of the course we will also introduce vectors in 3D.

**Prerequisites:** trigonometry and precalculus (Math 1113 or equivalent), and some introductory calculus (e.g., Math 2250)

### **Grading:**

Homework: 10%, Quizzes: 20% Tests: 39% Final examination: 31% Total: 100%

The standard decapercentile scale will apply (e.g., A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: <60).

Percentages of at least 90, 80, 70, 60 guarantee grades of at least A-, B-, C-, D respectively.

### **Homework:**

Homework problems will be assigned using the web-based WebWorK system, which allows you to attempt each problem as many times as you like, and gives immediate feedback as to whether your answers are correct. Go to <https://webwork.math.uga.edu> and click on Math2260\_JWong\_F09.

In addition, supplemental (but optional) homework from the textbook will be assigned and posted on the course web page <http://www.math.uga.edu/~jwong/teaching/math2260.html>. This written homework will not be collected, but it is important to do it because it will help you understand the material and test or quiz problems may be similar to homework problems.

### **Quizzes:**

We will have 10 quizzes during the semester, roughly once every week except on the week of an exam. The exact dates of these will be announced at least a week in advance. The quiz problems will be similar to the homework problems. No books, notes or calculators are allowed on the quizzes.

### **Tests:**

There will be 3 in-class term tests before the final exam (closed book and notes). Calculators will not be allowed on exams, nor will they be necessary. The term tests are tentatively scheduled for the following days

First term test: Sept. 18 (Friday)

Second term test: Oct. 12 (Monday)

Third term test: Nov. 16 (Monday)

Final Exam: Wednesday, December 16 2009 8:00 - 11:00 a.m.

**Attendance Policy:**

Daily attendance is strongly suggested. Any student with 5 or more unexcused absences for the semester may be withdrawn from the course with a grade of WP (withdraw passing) or WF (withdraw failing).

From the UGA Bulletin: "Withdrawals after the drop/add period will result in course entries on the academic record with grades of WP and WF as assigned by the instructor.

A student who withdraws or is withdrawn for excessive absences after the withdrawal deadline of the semester is assigned a grade of WF except when the student is doing satisfactory work and Student Support Services is able to approve the withdrawal because of a hardship situation. In such a hardship situation, the student is assigned a grade of WP."

**Missed work:** There will be no make-up tests or quizzes. If you miss one of the in-class tests for a legitimate reason, your grade will be determined by the remaining in-class tests, the quizzes, and the final exam. A test missed for no reason will be counted as a score of 0.

Students missing any test should submit as soon as possible the proper documents justifying the absence. The value of a properly justified missed quiz or test will be added to the value of the final exam. But under no circumstances will the final examination be allowed to exceed 65% of the total course grade.

**Academic code:** All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe and ignorance is not an acceptable defense. See <http://www.uga.edu/honesty>. Collaboration with your peers in studying is encouraged, however.

**Tutorials and Additional Help:**

The math department will run calculus study halls Monday-Thursday 3:30-5:30pm in Boyd.

Perhaps the best source of help, though, is my office hours, which are devoted to helping you.