



UNIVERSITY OF CENTRAL FLORIDA
Department of Mathematics

MAC 2312.004- Calculus II

Fall 2006

Instructor: Mr. Richard Russell
Office: MAP 201 **Office Hours:** Tue/Thu 6:30pm-7:30pm or by appt.
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Required Text: *Calculus*, 5th edition, James Stewart

Prerequisites: Successful completion of MAC 2311- Calculus I is a required prerequisite for this course.

Course Goal: To master the techniques of integration and the fundamental properties of sequences and series.

Course Content: Chapters 7-12 of Stewart's *Calculus*: Inverse functions; exponential, logarithmic, and trigonometric functions and their derivatives; L'Hospital's rule; techniques of integration; application of integration to arc length and surface area; parametric equations and polar coordinates; tangent lines; areas and lengths in polar coordinates; infinite sequences and series, including convergence tests and Taylor and Maclaurin series.

Grading: There will be four in-class exams (tentatively scheduled for 9/7, 9/28, 10/19, and 11/16), online assignments (see section below), and a comprehensive final exam. Homework from the text will be assigned daily but will not be graded. However, completion and understanding of this homework is of vital importance if you plan on passing this course. Official exam dates will be announced in class at least one week ahead of time. The final exam will be held from 7:00pm-9:50pm on December 7. All students must take the final exam at this time. No exceptions! Final grades will be calculated as follows:

Online Assignments	20%
Midterm Exams	60%
Final Exam	20%

The lowest midterm exam grade will be replaced by the final exam grade if the final exam grade is the higher of the two. Final course letter grades are given on the standard grading scale: A: 90%-100%, B: 80%-89%, C: 70%-79%, D: 60%-69%, F: 0%-59%. Plus/minus grades will not be assigned.

Make-ups: By University policy, students may make up missed quizzes and exams in the case of illness, family emergency, religious holidays, or official university functions. In order to have a make-up, students must present me with written documentation of the absence; if approved, a make-up will be given no later than two weekdays after your return to class. As a matter of courtesy, if you

expect to miss an exam please tell me beforehand. Alternatively, in the case of approved absences only and by approval of the instructor, a student may elect to have the missed exam score replaced by the final exam score. For unapproved absences, a score of zero will be recorded. Each student **MUST** take the final exam (no exceptions whatsoever) at the scheduled date and time. Students who do not take the final exam will receive a grade of "F" for the course.

Online Assignments: There will be approximately 8 assignments which you will complete online. Each assignment will be a set of 12 problems similar to the examples discussed in class or from your textbook. The due dates for the assignments will be announced in class. No late submissions will be accepted. Your average on the online assignments will account for 20% of your final grade in the course. Instructions for creating your online account will be given during the first class meeting.

Attendance: Attendance will not be taken, however, Calculus II is a *very* intensive course and daily attendance is necessary to master the material. Common courtesy requires that students arrive on time and stay the entire class period. Cell phones should be turned OFF (not on vibrate). This is a professional university classroom and I expect my students to treat it as such.

Technology: You may find a graphing calculator useful in this course, however I do not require you to have one. If desired, any calculator with the exception of the TI-89 or TI-92 is allowed at any time including on exams. Keep in mind that you must show all work on exams in order to receive credit, so you will not be able to depend on a calculator to compute derivatives or integrals (except as a check).

Math Lab: The Math Lab is a great place to study and receive free tutoring. You will find information at www.math.ucf.edu/~mathlab including hours, location, etc.

Academic Honesty: Any student who compromises the integrity of any exam or quiz by giving or receiving aid in any dishonest manner will be dealt with to the full extent of the policies of the Office of Student Conduct, up to and including receiving a grade of "F" for the course.

Important Dates: Every day in this class is important! However, please make note of the following dates:

October 13, 2006	Withdrawal Deadline
November 23, 2006	Thanksgiving Day- No Class
December 7, 2006	Final Exam (7:00pm-9:50pm)

Tentative Schedule/Homework Assignments

Section	Exercises Assigned
7.1	3-15 odd, 17, 19, 25-29 odd, 35-41 odd
7.2	13, 15, 17, 23, 25, 27, 29-43 odd, 71-77 odd
7.3	3, 5, 7, 9, 17, 29-37 odd, 53, 55, 57, 61
7.4	3-23 odd, 25, 31, 39-49 odd, 65-75 odd
7.5	1-13 odd, 19, 21, 23-35 odd, 49, 59-69 odd
7.6	1, 5, 7, 11, 17, 31-47 odd, 55-63 odd
7.7	5-61 every other odd
8.1	1-35 odd
8.2	1-47 odd, 53, 55, 59
8.3	1-29 odd
8.4	1-37 odd, 39, 43, 49
8.5	1-79 every other odd
8.7	7, 9, 13, 15
8.8	1, 5-39 odd, 41
9.1	5, 7, 11, 15, 17, 19
9.2	3, 5, 9, 13
9.3	3, 7, 11, 19, 21
11.1	1, 3, 5, 9, 13, 15, 19
11.2	1-15 odd, 17, 19, 37, 41
11.3	7-11 odd, 15, 17, 23, 29-37 odd
11.4	1, 5, 11, 17, 31, 35, 39
12.1	3, 7, 15-39 odd, 55, 59
12.2	11-33 odd, 41, 43
12.3	3, 5, 9-23 odd
12.4	3-31 odd, 33, 35
12.5	3-19 odd
12.6	3-23 odd
12.8	3-27 odd
12.9	3, 7, 11, 15, 23, 27
12.10	3-17 odd, 23, 27, 39, 55, 59
12.11	1, 7, 13, 17
12.12	13, 15, 19