



UNIVERSITY OF CENTRAL FLORIDA
Department of Mathematics

MAC 2312.C004- Calculus II

Summer 2006

Instructor: Mr. Richard Russell
Office: MAP 350C MWF 3:00pm-4:00pm (Summer A), TRF 3:00pm-4:00pm (Summer B)
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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, periodic quizzes (some in-class and some take-home), 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. Exams will be announced in class at least one week ahead of time. The final exam will be held during the last class meeting. Final grades will be calculated as follows:

Quizzes	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.

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: The use of calculators is neither required nor encouraged. However, 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. It is open M-F from 9-3 and Sundays 2-6. It is located in MAP 113.

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:

May 29, 2006	Memorial Day- No Class
June 23, 2006	Withdrawal deadline
July 4, 2006	Independence Day- No Class
August 4, 2006	Final Exam

Suggestions for Success in this Course

1. Form study groups and meet frequently.
2. Do the homework exercises immediately after class if possible.
3. Budget at least 2 hours of study/homework time for each hour spent in class.
(I'm not kidding...this is a tough course.)
4. Take advantage of my office hours. Sometimes it is easier to catch on to a topic in a one-on-one environment.
5. Ask questions in class. You can be assured that another student will have the same question and if you are both afraid to ask it then I won't know to answer it!

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, 29-43 odd, 71-77 odd
7.3	3, 5, 7, 9, 17, 23, 29-37 odd, 53, 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	1-33 odd, 45, 51
8.2	1-47 odd, 53, 55, 59
8.3	1-29 odd, 39
8.4	1-37 odd, 39, 43, 49
8.5	1-79 every other odd
8.7	7, 9, 15, 19
8.8	1, 5-39 odd, 41, 49
9.1	5, 7, 11, 15, 17, 19
9.2	3, 5, 9, 13
9.3	3, 7, 11, 19, 21, 27, 29, 33
11.1	1, 3, 5, 9, 13, 15, 19, 24, 28
11.2	1-15 odd, 19, 37, 41, 59
11.3	7-11 odd, 15, 17, 23, 29-45 odd, 54, 61, 63
11.4	1, 5, 11, 17, 31, 35, 39, 43, 47
11.5	1, 3, 9, 11, 17, 31, 35, 39, 43, 47
11.6	1, 3, 7, 11, 15
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, 23
12.6	3-27 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

