

UNIVERSITY OF CENTRAL FLORIDA
Department of Mathematics

MAC2311H Section 203 Honors Calculus I (4 credit hours) Fall 2006 MAP233 MTWF 11:30–12:20pm

Instructor: Dr. Alexander Katsevich
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Office Hours: MWF 10:30–11:30am or by appointment

Text: *Calculus*, 5th Edition, James Stewart

Prerequisites: Successful completion of MAC1105 College Algebra and MAC1114 College Trigonometry or their equivalents are required prerequisites for this course.

Course Goal: To master the first principles of calculus: the concept of limit, the derivative, and the antiderivative.

Course Content: Chapters 1-6 of Stewart *Calculus*: Limits; continuity; derivative; derivative rules; Mean Value Theorem; intervals of increase, decrease and concavity; first and second derivative tests; extreme value problems; related rates; definite integrals; Fundamental Theorem of Calculus; calculation of standard antiderivatives, substitution rule; area under a curve; applications of the definite integral.

Grading: There will be four in-class tests and a comprehensive final exam. Additional homework from the text will be assigned almost every day, but will not be collected or graded. The four midterm tests are tentatively scheduled for September 15, October 10, November 3, and November 28. The final exam is scheduled for Wednesday, December 6, 10:00am–12:50pm in the usual classroom.

Tests	$16\frac{2}{3}\%$ each
Final Exam	$33\frac{1}{3}\%$

Final course letter grades are given on the standard grading scale: A: 90%-100%, B: 80%-89%, C: 70%-79%, NC: 0%-69%. Plus/minus grades will not be assigned. This class is approved for the No Credit (NC) grade. An NC grade will be given under the following circumstances, as detailed by Department of Mathematics policy: regular class attendance; must take all tests and final exam. Students not eligible for an NC grade will receive an F for the course.

Make-ups: By University policy, students may make up missed quizzes, tests, and exams in the case of illness, family emergency, religious holidays, or official university activity. 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 that score replaced by the final exam score. For unapproved absences, a score of zero will be entered in the gradebook.

Each student MUST take the final exam at the scheduled date and time. Students who do not take the final exam will receive an F for the course.

Calculator Usage: Calculators are neither required nor encouraged in the class. However, if desired any scientific calculator or graphing calculators up to and including TI-89 are allowed.

Attendance and Classroom Conduct: Students are expected to attend each lecture; some attendance records may be kept and used to verify NC grade eligibility. At the discretion of the instructor, attendance may be used to assign a better course grade in borderline cases. Common courtesy requires that students arrive in class on time, and stay the entire class period. Turn your cellphones and pagers off. Please treat your classmates and instructor with respect and courtesy.

Academic Honesty: Cheating will not be tolerated in this course. Students found to be cheating will be dealt with to the full extent of University policy.

Important Dates:

Add/Drop: August 21–25

Holidays: September 4, November 10–11, November 23–25

Withdrawal Deadline: October 13

Classes end: December 2

Final Exam: Wednesday, December 6

Calculus I Fall 2006

Tentative Schedule (4 meetings/week)

Week	Sections				Notes
Aug. 21–25	1.1	1.2	1.3	2.1	
Aug. 28-Sep. 1	2.2	2.2	2.3	2.4	
Sep. 4–8		2.4/2.5	2.5	2.6	Labor Day Holiday
Sep. 11–15	3.1	3.2	Review	Test 1 (1.1-3.2)	
Sep. 18–22	3.3	3.3	3.5	3.6	OMIT 3.4
Sep. 25–29	3.7	3.8	3.9	3.9	
Oct. 2–6	3.10	4.1	4.1	4.2	
Oct. 9–13	Review	Test 2 (3.3-4.1)	4.3	4.3/4.4	
Oct. 16–20	4.4	4.4/4.5	4.7	4.7	OMIT 4.6
Oct. 23–27	4.7	4.9/4.10	4.10	5.1	OMIT 4.8
Oct. 30–Nov. 3	5.1/5.2	5.2	Review	Test 3 (4.2-5.2)	
Nov. 6–10	5.3	5.3/5.4	5.5		Veteran's day
Nov. 13–17	6.1	6.1	6.2	6.2/6.3	
Nov. 20–24	6.3/6.4	6.4/6.5	6.5		Thanksgiving Week
Nov. 27–Dec. 1	Review	Test 4 (5.3-6.5)	Review	Review	
Dec. 4–9	Final Exam Week				

Test Dates

Test	Sections	Date
1	1.1-3.2	Sept. 15
2	3.3-4.1	Oct. 10
3	4.2-5.2	Nov. 3
4	5.3-6.5	Nov. 28
Final	Comprehensive	Dec. 6