

UNIVERSITY OF CENTRAL FLORIDA
Department of Mathematics
Spring 2006
Syllabus MAC 2311.01
Calculus with Analytic Geometry I
MTWTF 10:30 – 11:20 AM (4 Credit Hours)

Instructor: Dr. Christian Barrientos
Office: MAP 124
Office Hours: MW 8:30 – 10:00, T 11:30 – 13:00
Text: James Stewart, Calculus 5th Edition, Brooks/Cole Publishing Company, Pacific Grove, California

Course Catalog Description:

The prerequisites for MAC 2311 are MAC 1105 and MAC 1114 or equivalent or C.I. This course includes the differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. The NC grading policy applies to this course.

Course Content:

The core of this course is the study of the derivative of a function. The concept of limit is studied together with applications of the derivative to the physical world. Integrals are also included with the Fundamental Theorem of Calculus and its applications.

The Golden Rule:

Students must follow the University standards for personal and academic conduct outlined in the Golden Rule. For more information see <http://www.ucf.edu/goldenrule/>.

Classroom Conduct:

You are expected to arrive on time and stay for the entire lecture. Turn off cell phones, beepers, walkmans, and other disruptive electronic devices. Persistent disrupters will be asked to leave the class and dropped from the course.

Academic dishonesty in any form will not be tolerated. If you are found cheating you will receive an F for the course, the incident will be reported to the University student judicial officer for disciplinary action.

Exams:

There will be 4 regular tests (100 points each) and a final exam (200 points). The comprehensive final exam is mandatory for all students. No exceptions are permitted for early travel, etc. Please plan accordingly.

NO MAKE-UPS ARE GIVEN. If a test is missed because of documented “major illness” or “death in the family” the final exam and some additional questions will be used to compute a score for the missed test.

The 50-minute tests dates are:

Test #1: January 27	Sections: 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.5
Test #2: February 24	Sections: 3.1 → 3.10
Test #3: March 24	Sections: 4.1 → 4.5, 4.7, 4.9, 4.10
Test #4: April 21	Sections: 5.1 → 5.5 and 6.1 → 6.5

Final Exam: TBA

Grades will be awarded according to the following scale:

A	B	C	D	F
540 – 600	480 – 539	420 – 479	360 – 419	less than 360

If you attend 80% or more of the lectures, take all tests and final exam with an overall average of at least 50%, then NC grade will be awarded in place of an F.

Withdrawal Deadline: March 3, 2006

Holidays: Martin Luther King Jr. Day, January 16; Spring Break, March 13-18

NO GRAPHING CALCULATORS ARE ALLOWED IN THIS CLASS

Recommended Homework

Section 1.1	5,7,21,23,25,27,33,35,37,47,49,63
Section 1.2	1,3,7,9,11,13
Section 1.3	9,13,19,23,31,35,37,39,43,47,51,53,61
Section 2.1	1,3,5,7
Section 2.2	1,3,7,13,25
Section 2.3	1,3,7,9 – 29 (odd),35,39,41,47,59
Section 2.5	3,11,13,17,33,35,37,39,41,47
Section 3.1	9, 13 – 27 (odd)
Section 3.2	19 – 29 (odd)
Section 3.3	1 – 41 (odd)
Section 3.4	1,5,9,15
Section 3.5	1 – 23 (odd), 35 – 47 (odd)
Section 3.6	1 – 45 (odd)
Section 3.7	1 – 27 (odd), 41,47
Section 3.8	5 – 19 (odd), 23,25,33,35,39
Section 3.9	1 – 37 (odd)
Section 3.10	5,7,15,17,19,23,25,39
Section 4.1	31 – 55 (odd)
Section 4.2	11,13,17,19,33
Section 4.3	29 – 39 (odd)
Section 4.4	9 – 31 (odd), 43,45
Section 4.5	1 – 39 (odd)
Section 4.7	1 – 37 (odd)
Section 4.9	13,15,17,21
Section 4.10	1 – 35 (odd)
Section 5.1	17,21
Section 5.2	17,19,23,27,37,53
Section 5.3	7 – 35 (odd)
Section 5.4	1 – 13 (odd), 17 – 39 (odd)
Section 5.5	1 – 31 (odd), 37 – 53 (odd)
Section 6.1	1 – 25 (odd)
Section 6.2	1 – 17 (odd), 21,49
Section 6.3	1 – 19 (odd), 37,39,41
Section 6.4	1,3,9,13,17,21
Section 6.5	1,3,5,7,17,19