

UNIVERSITY OF CENTRAL FLORIDA  
Department of Mathematics

MAC2313 Calculus III (4 credit hours)

Spring 2007

MAP204 MWF 12:00–1:20

Instructor: Dr. Xin Li

Department of Mathematics

MAP 212, 407-823-5984, xli@math.ucf.edu

Office Hours: MW 9:30–11:00am, or by appointment

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

Prerequisites: Successful completion of MAC2311 Calculus I and MAC2312 Calculus II or their equivalents.

Course Goal: To master the multivariate calculus and its applications.

Course Content: Chapters 13–17 of Stewart *Calculus*: Vectors, Vector Functions, Partial Derivatives, Multiple Integrals, Line Integrals, Green's Theorem, Stokes' Theorem, the Divergence Theorem.

Grading: There will be four in-class tests, and a comprehensive final exam. Additional homework from the text will be assigned daily, but will not be collected or graded. The dates for the tests and the final will be announced on the course website (<http://www.math.ucf.edu/xli/calc3.htm>) soon.

Tests 70%

Final Exam 30%

Final course letter grades are given on the standard grading scale: A: 90%-100%, B: 80%-89%, C: 70%-79%, NC: 50%-69%, F: 0%-49%. Plus/minus grades will not be assigned.

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. 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. Students found to be cheating will be dealt with to the full extent of University policy.

Important Dates:

Monday, January 15: Martin Luther King Jr. Day

Friday, March 2: Withdrawal Deadline

March 12 - 17: Spring Break

**1rst Week**

Section 13.1 1 - 31 odd  
Section 13.2 3 - 33 odd  
Section 13.3 1 - 49 odd

**2nd Week**

Section 13.4 1 - 35 odd  
Section 13.5 1 - 53 odd  
Section 13.6 1 - 33 odd

**3rd Week**

HOLIDAY  
Section 13.6 1 - 33 odd  
TEST I

**4rth Week**

Section 13.7 3 - 51 odd  
Section 14.1 1 -21 odd, 31  
Section 14.2 1 - 25 odd, 33 - 39 odd

**5th Week**

Section 14.3 1,3,5, 9 - 27 odd, 37, 39  
Section 14.4 3- 19 odd  
Section 15.1 7 - 29 odd, 30

**6th Week**

Section 15.2 5 - 19 odd, 23, 27 -35 odd  
Section 15.3 13 - 63 odd  
TEST 2

**7th Week**

Section 15.4 1,3,5, 11,13,15, 23 -31 odd  
Section 15.5 1 - 33 odd, 43, 45, 47  
Section 15.6 3 - 27 odd, 37-43 odd

**8th Week**

Section 15.7 1-17 odd, 27-33 odd, 37-45 odd  
Section 16.1 1, 3, 11, 13  
Section 16.2 1-29 odd

**9th Week**

Section 16.3 1-27 odd, 31, 37-47 odd  
Section 16.4 1-31 odd  
Section 16.7 1-19 odd, 23-33 odd

**10th Week**

Section 16.8 1-29 odd, 33, 35  
TEST 3

**11th Week**

Section 16.6 1-11 odd, 23  
Section 17.1 1-21 odd, 29, 31  
Section 17.2 1-21 odd

**12th Week**

Section 17.3 1-23  
Section 17.4 1-19 odd  
HOLIDAY

**13th Week**

Section 17.5 1-29 odd  
Section 17.6 1, 3, 11-23 odd, 31-43 odd  
Section 17.7 1-27 odd

**14th Week**

Section 17.7 1-27 odd  
TEST 4  
HOLIDAY

**15th Week**

Section 17.8 1-9 odd, 13-17 odd  
Section 17.9 1-15 odd, 19, 21  
REVIEW

**16th Week**

FINAL EXAM