

UNIVERSITY OF CENTRAL FLORIDA
Department of Mathematics

MAC2313 Calculus III (4 credit hours) Spring 2007

MAP121 TR 7:30am-9:20am

Instructor: Dr. Heath Martin

MAP 215, 823-5700, martin@math.ucf.edu

Office Hours: TWR 9:30-10:30 or by appointment

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

Prerequisite: Completion of MAC2312 Calculus II with a C or better is a required prerequisite.

Course Goal: To master the calculus of real-valued functions of several variables.

Course Content: Chapters 13-17: Vectors; lines, planes, quadric surfaces in space; cylindrical, spherical coordinates; vector-valued functions; tangent, normal vectors and curvature; functions of several variables; derivatives, tangent planes, directional derivatives; multiple integrals; vector fields; line integrals; conservative vector fields; Green's theorem, Stoke's Theorem

Grading: There will be four announced short quizzes given at the beginning of class, four in-class tests, and a comprehensive final exam. Homework will be assigned, but will not be collected or graded. The four midterm exams are *tentatively* scheduled for January 30, February 22, March 22, and April 17. Changes to the exam dates, if any, will be announced in class. The final exam is scheduled for Thursday, April 26, 7:00am-9:50am, in the usual classroom.

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| Quizzes | 15% |
| Tests | 60% |
| Final Exam | 25% |

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%. There are no grades of NC for this class, nor will plus/minus grades 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 provide 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. For unapproved absences, a score of zero will be entered in the gradebook. Note that travel plans, particularly at Spring Break and the semester end, are not valid excuses.

Each student **MUST** take the final exam. 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. All work must be shown on exams to receive full and/or partial credit.

Attendance and Classroom Conduct: Students are expected to attend each lecture, although attendance records will not be kept. Common courtesy requires that students come to class on time, and stay the entire class period. Turn your cellphones and pagers off when you enter the classroom. 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:

March 12-16: Spring Break

April 26: Final Exam