

MATH 1260-1, AP CALCULUS II, FALL 2010

Classroom: LCB 215 **Time:** MTWF 9:40 – 10:30
Instructor: Domingo Toledo
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Office: JWB 324 **Phone:** (801) 581-7824
Office Hours: Mon, Tues 11:50 – 12:40, or by appointment.
Web-page: <http://www.math.utah.edu/~toledo/1260.html>
Prerequisite: Math 1250 or score of 4 or 5 in AP BC test.
Textbook: J. Marsden and A. Weinstein, *Calculus III*.

Course Description: The purpose of this course is to cover the material needed to understand the calculus of functions of several variables, and the calculus of vector-valued functions. In practice we will concentrate on functions of two and three variables, and we will begin by studying some geometry of the plane and space that we will need during the whole semester. We will cover most of the topics in the textbook. The main topics will be:

- Vectors
- Curves and Surfaces
- Partial Derivatives
- Gradients, Maxima and Minima
- Multiple Integrals
- Vector Analysis

Homework and Quizzes: I will assign homework problems each week. These will not be handed in, but on Wednesday of the following week (starting September 1) I will give a 20 minute quiz on the homework. Working the homework problems is the most important part of the course. Please make sure that you can do all the problems. In the case of routine problems, you need not work them all, but make sure you can do any problem of this nature. For more difficult problems, make sure you can do them. Feel free to ask questions in class, or to come to my office for help. I am available many more times than my office hours. If you want to see me at other times, it would be best check with me right after class to arrange a meeting. You can also go to the Mathematics Tutoring Center for help. *Warning:* On Wednesdays I will not take questions in class on the problems for the quiz that day.

Exams: There will be three midterm exams on Wednesdays September 15, October 20 and November 17, and a comprehensive final exam on Friday, December 17, 8:00–10:00 AM.

Makeups: Since I drop the lowest 3 quizzes and the lowest midterm, there will be no make-ups for quizzes and midterms.

Grading: Two grades will be computed:

Grade 1:

Quiz, drop lowest 3:	30 %
Midterm Exams, drop lowest:	40 %
Final Exam:	30 %

Grade 2:

Final Exam:	100 %
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Your final grade will be based on the higher of Grade 1 and Grade 2. Note that Grade 1 includes the Final Exam, so everyone is required to take the Final Exam.

The grading system will not be any stricter than one letter grade for every 10 points (90-100 A or A-, 80-89 B or B+ or B-, etc).

Important dates: Last day to drop (delete) classes: Wednesday, September 1. Last day to add classes: Tuesday September 7. Last day to withdraw from classes: Friday, October 22.

Mathematics Tutoring Center: The Mathematics Tutoring Center offers free, drop-in tutoring. Check <http://www.math.utah.edu/ugrad/tutoring.html> for its schedule.

ADA: The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, cognitive, systemic, learning, and psychiatric disabilities. Please contact me at the beginning of the semester to discuss any such accommodations you may require for this course.