

Syllabus for Math 210, Fall, 2006 Multivariable Calculus

- **Text:** The text for this course is *Multivariable Calculus* by J. Stewart.
- **Instructor:** Jesse Ratzkin
 - **Office:** M423
 - **Office Hours:** Mondays 1:00–2:00, Thursdays 12:30–1:30, and by appointment
 - **phone number:** 486-8391
 - **email:** ratzkin@math.uconn.edu
 - **webpage:** <http://www.math.uconn.edu/~ratzkin/teaching/m210>
- **Tentative Schedule:** I should emphasize that this is very tentative. I have listed a time span in the first column, the subject in the second column, and the section of the text the third column.

Aug. 28–Sept. 5	geometry of space	13.1–13.5
Sept. 7	cylindrical and spherical coordinates	13.7
Sept. 11–14	vector-valued functions	14.1–14.4
Sept. 18–26	intro to functions of several variables	15.1–15.3
Oct. 2	tangent planes and linear approximation	15.4
Oct. 3–9	chain rule, directional derivatives, gradient	15.5–15.6
Oct. 10–17	max/min problems, Lagrange multipliers	15.7–15.8
Oct. 19–30	double integrals	16.1–16.4
Oct. 31	triple integrals	16.7
Nov. 2–7	applications and change of variables	16.5, 16.6, 16.9
Nov. 9–16	vector fields and line integrals	17.1–3, 17.5
Nov. 27–Dec. 7	Green's, Stokes' and Gauss' theorems	17.4, 17.6–17.10

There will be three exams in this course, including the final (which tentatively scheduled for **Friday, Dec. 15, 6 PM**). The midterm exams will be on **Thursday, Sept. 28** and **Thursday, Oct. 26**.

Here is a list of some other dates you might want to keep in mind:

- Labor Day: Sept. 4
 - Last day to drop: Oct. 30
 - Thanksgiving recess: Nov. 20–24
- **Grading:** To assign grades, I will form a weighted sum of all the grades you receive throughout the semester. The weighting will be
 - midterm exams 20% each
 - homework 20%
 - final exam 40% .

I expect that the median grade in this class will be a B-.

- **Homework Policy:** I will assign homework approximately every two weeks, and grade several selected problems from each assignment. You are encouraged to collaborate with others in the classes, but you must write each homework assignment in your own words. I do not accept late homework assignments.

- **Exam Policies:** I do not allow reference materials (e.g. a page or index card of notes) during exams. I do allow calculators which cannot do symbolic computations, but they are not required.
- **ADA Statement:** 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.
- **General Comments:** Please ask me questions. In general, this is the best way for you to learn the material, and the best way for me to tell how well the class is following the lectures. Asking many questions makes you happier and my job easier. I also encourage you to come to my office hours, or drop by my office outside of office hours. I'm usually available for questions.

Please keep in mind that mathematics is not a spectator sport! You can only learn math by doing it, so it is imperative that you do the homework.

Good luck.