

2110 Multivariable Calculus, Fall 2009

Arend Bayer

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This is the syllabus for 2110 section 3, meeting MWF 9.30am-10.45am in MSB 411.

How to find me

office: MSB 206

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Office hours: Mondays 1.30 pm and Wednesdays 1.30 pm

Course homepage: <http://www.math.uconn.edu/~bayer/math2110f09/>

“Office hour” only means that I will always (try to) be there – you are welcome to come by whenever I am in my office.

Course description

According to the catalog description, the topics are “Two- and three-dimensional vector algebra, calculus of functions of several variables, vector differential calculus, line and surface integrals”.

In practice, this means you will learn how to deal with functions of several variables: derivatives, integrals, integrals along a curve, integrals along a surface. (The only material of Calculus 1-2 that won't reappear are infinite sequences and series.)

Textbook: Multivariable Calculus, 6th edition, by James Stewart. Chapters 12–16.

Exams, homework, grading

Homework You will get weekly homework, due on Fridays before class. The assignments will be posted on the course homepage.

You are **encouraged** to discuss homework problems with others and work on them in groups. (There is no better way to learn mathematics than to discuss problems in groups!) You just have to write up the solution on your own.

I will grade selected problems of each homework. Most problems on the quizzes will be very similar to one of the homework problems.

Quizzes Usually on Fridays, roughly bi-weekly, there will be a short quiz (15-20 min) on the material of the homework (and possibly the previous homework). Your worst quiz won't count towards your credit; if you miss a quiz, you will get 0 points. *After you have missed one quiz, you will get 0 points in your credits towards the final grade for every further quiz you miss.*

(I currently plan to have quizzes on 9/11, 9/25, 10/2, 10/16, 10/30, 11/13, 12/4 —this might change.)

Exams There will be two midterms:

- 1st midterm is Wednesday, October 7
- 2nd midterm is Wednesday, November 18

All exams are closed-book exams.

Final The final exam will cover the entire semester. According to the *preliminary* exam schedule, it will be December 16, 8–10 am.

Grading You will obtain 5 grades, which will count as follows towards your final grade: 15% homework, 25% quizzes, 15% each midterm, 30% the final. I will give precise letter grades for the midterms, and you can always ask me about your current grade for homeworks and quizzes. Your current homework and quiz scores will be available via HuskyCT—look for a link on the course homepage once it is relevant.

Calculators **Graphing calculators are allowed for the quizzes and exams—symbolic calculators are not allowed (TI-89 and similar).**