

Math 241 - Section C1H - Calculus III (Honors)  
Course Syllabus

**Course Location**

MTWTh 10:00-10:50 Room 241, Altgeld Hall.

**Contact information**

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Office Phone: (217) 333-3504.

Office Hours: Tuesday 8:50-9:50 am, Thursday 3:00-4:00 pm, and by appointment.

**Course Information**

This course will cover vectors, calculus of functions of several variables, curves, multiple integration, and the integral theorems of vector calculus.

Website: <http://www.math.uiuc.edu/~jarouse/teaching/S2008/>

Textbook: Vector Calculus, Miroslav Lovrić, John Wiley & Sons. ISBN: 978-0-471-72569-5.

**Exams**

There will be three in-class exams. Each will contribute one sixth of the course grade. The first exam will be given during the week of February 11-14, the second exam will be given during the week of March 3-6, and the third exam will be given during the week of April 14-17. The precise dates will be chosen by a vote of the students on the first homework assignment.

The final exam is worth one third of the course grade, and will be given from 8 AM to 11 AM on Tuesday, May 6.

Calculators are not allowed on exams.

**Homework**

After each class, I will post several homework problems on the course website. Some of these will be fairly routine, and some will be more challenging. I will mark some of the problems as non-graded, which I recommend doing for your own practice. The remainder should be turned in. Homework from week  $n$  will be due at the beginning of class on Wednesday of week  $n + 1$ .

Homework will contribute one sixth of the course grade. I encourage working on homework in groups. However, everyone should contribute, and everyone should understand all the problems at the end.

In order to get full credit it is essential that you provide logical reasoning for your answers (an answer alone typically will not earn any credit).

### Grades

The course grade will be computed from the scores on the homework and exams. The precise grade distribution will be determined at the end of the course, but a score of at least 90/80/70/60 percent will earn a grade of at least A-/B-/C-/D-, respectively.

### Getting Help

Here are some resources.

- Attend Lecture. I will try to carefully explain more difficult material, and occasionally present (interesting) examples that aren't in the book.
- Read the book. I will not be able to cover all of the material you need to know in class.
- Do the homework. The only way to *really* learn math is to do it yourself. This is your chance.
- Office hours. If you have any questions about the material from lecture or the homework (or anything else), come to my office hours and ask.
- Other students in the class. You should talk to other students, ask them questions, answer their questions, and work with them on homework.
- Tutors. See <http://www.math.uiuc.edu/UndergraduateProgram/tutoring.html>.

### General Comments

You will not get more out of this class than you put into it. I pledge to make this class an exciting learning opportunity. In return, I expect that each of you will exert substantial effort to make the most of this opportunity.