

Math 241: Calculus III

About me

John P. D'Angelo

Dept. of Mathematics, Univ. of Illinois, 1409 W. Green St., Urbana IL 61801

jpda@math.uiuc.edu

Office: 355 Altgeld Hall; phone 333-6406.

Office Hours: MWF 10, W 2, or by appointment. Please consult your TAs with most questions.

About the course

Math 241, section CL1, meets MWF at 12:00 in 134 Temple Hoyne Buell Hall.

Web page for this courses: <http://www.math.uiuc.edu/jpda/teaching.html>
(There is a tilde before the jpda)

Text Book: Vector Calculus, Third Edition, Susan Colley, Prentice-Hall, 2006.

GOALS:

We will learn about vectors, partial derivatives, multiple integrals, and how these topics fit together.

We will learn how to solve the problems in several variable calculus which lie behind all of modern physics and engineering.

We will develop some geometric intuition in three (and higher) dimensions.

We will gain some mathematical sophistication in preparation for later courses.

We will appreciate Mathematics as an art form.

Syllabus

We will cover all of the first seven chapters of the book and we will discuss chapter eight informally at the end.

Grading

Homework will be assigned every class period, but it will not count in your grade.

ADVICE: Do the homework. Exam questions will presume that you did the homework. In 30 years of teaching here I have never seen a student in this course whose test scores did not correlate closely with how carefully the student did the homework. Insist that your TAs go over problems on which you need help.

There will be 2 formal quizzes worth 50 points each. (Sept. 12, Dec. 1)

There will be 3 hour exams worth 100 points each. (Sept. 19, Oct. 10, Nov. 7)

There will be a final worth 200.

Within each section TAs can give shorter quizzes; these quizzes will total another 100 points.

WARNING: I do not give make-up exams unless you provide documentation from official sources explaining the absence.

The final will be held Wed. Dec. 17 1:30 to 4:30 in 134 Temple Hoyne Buell.

I will hold a conflict exam as well; time and date to be determined.