Mathematics 2142

Advanced Calculus II

Section 1

Spring, 2011

Instructor: Bill Abikoff

Text: Tom Apostol's Advanced Calculus 1, Second Edition

Meeting times: 12 to 12:50 M in MSB 219 and 12:30 to 1:45 TuTh in MSB 411.

Hopefully this semester, the course will have projects which complement the class material.

Most members of the class were in my section last semester. There are some minor differences in the material covered in the two sections.

You might also find it interesting to compare this course with the MIT undergraduate courses on calculus from a theoretical viewpoint. Look at the OpenCourseWare project at MIT:
http://ocw.mit.edu/OcwWeb/Mathematics/index.htm
Their course number is 18.014. They use the same text but cover the material extremely quickly. They have a different notion of course credit than we do and their course carries significantly more credit than ours does.

I often follow the questions asked by the class rather than my own notes --- so you should try to take good notes and I encourage you to share them.

My e-mail address is abikoff@math.uconn.edu. Clicking on the address should give you a pop-up mailer window. My homepage is http://www.math.uconn.edu/~abikoff.

My office hours are or soon will be listed here.

I will always be available, as often and as soon as needed, by appointment. e-mail is the most reliable means of contacting me.

Lists of homework assignments, projects and other information for students are given as given as hypertext links below. The lists are works in progress and will change as the semester progresses.

Homework

Projects are available here.

New and important is a place where I'll put items as needed.

We're told that we're supposed to inform you, most often on this page, that you shouldn't be academically naughty. If you're thinking of doing something that might be inappropriate, you should first read the Student Code of Conduct.

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Syllabus

The textbook for this course is Calculus Volume 1 by Thomas M. Apostol. The grading will be based on 60% for homework (roughly weekly), 20% for the midterm exam and 20% for the final exam.

Office Hours

My office hours are Monday 12-1 and Friday 9:30-11. I am around a lot of other times, so if you cannot make those times, you can stop by my office or send an email to request another time.

Homework assignments

Homework 1
Homework 2
Homework 3
Homework 4
Homework 5: Do Section 9.6, Exercises 1(a)-(f), 2(a)(c)(f), 3(e)(f), 4(a)(c) and 5(a)(b). Do Section 9.10, Exercises 1(a)(b), 3(a)(b), 4(a)(b).
Homework 6
Homework 7
Homework 8
Homework 9
Homework 10
Homework 11
Homework 12