Math 241 D1, Calculus III, Summer 2013

Section: D1, CRN: 33478.

June 10, 2013

- When and where: MTWRF 11:00AM–12:20PM at 1064 Lincoln Hall.
- Instructor: Hong Liu Email: hliu36@illinois.edu
- Office and Office Hour: Illini Hall 224. MWF: 12:20PM–1:00PM or by appointment.

Content

The focus of this course is vector calculus, which concerns functions of several variables and functions whose values are vectors rather than just numbers. In this broader context, we will revisit notions like continuity, derivatives, and integrals, as well as their applications (like finding minima and maxima). We will explore new geometric objects such as vector fields, curves, and surfaces in 3-space and study how these relate to differentiation and integration. The highlight of the course will be theorems of Green, Stokes, and Gauss, which relate seemingly disparate types of integrals in surprising ways.

THIS IS A SUMMER COURSE! WE GO TWICE AS FAST AS REGULAR ONES!

Textbook


Available at U of I bookstore together with WebAssign. We will cover Chapters 12 to 16.

WebAssign and Moodle

This is where you do your online homework.

FIRST HOMEWORK DUE ON JUNE 13TH, 9AM.

You have 5 trials for each problem and you can check your answer right away. Login in through https://www.webassign.net/uiuc/login.html

NO need for a course key, you will be enrolled to the course automatically. If you have not yet been enrolled by the system. Besides the bookstore, you can also start with a free trial for the first two weeks and extend the free trial.
Moodle is more or less like a forum, you can ask questions or help people out. You can also share some good stories there :) I will mostly make course announcement on Moodle or via email. So please check it regularly.

The link for Moodle is: https://learn.illinois.edu

Course Policies

I think no one will read this... at least I never read a syllabus...

**Overall grading:** Your course grade will be based on the online HW (20%), class participation (10%), three in-class exams (15% each), and a comprehensive final exam (25%). Grade cutoffs on any component will never be stricter than 90% for an A- grade, 80% for a B-, and so on. Individual exams may be curved more generously depending on their difficulty.

**Exams:** There will be three in class midterm exams on Friday in the second, fourth and sixth week. Final is on Friday 11AM–1PM, August 2nd.

All exams will be closed book and notes, and no calculators or other electronic devices (e.g. cell phones, iPads) will be permitted.

**Homework:** Online via WebAssign. Details of your HW scores can be viewed on WebAssign.

**In class activities:** The second half of each class usually involves group discussion on problems in WebAssign.

**Missed exams:** There will be no make-up exams. Rather, in the event of a valid illness, accident, or family crisis you can be excused from an exam so that it does not count toward your overall average. Such situations must be documented by an absence letter from the Emergency Dean located in Room 300 of the Turner Student Services Building, though I reserve final judgment as to whether an exam will be excused. All requests for an exam to be excused must be made within a week of the exam date.

**Exam Regrading:** I try hard to accurately grade all exams and quizzes, but please contact me if you think there was an error. All such requests for regrading must be made within one week of the test being returned.

**Cheating:** Cheating is taken very seriously as it takes unfair advantage of the other students in the class. Penalties for cheating on exams, in particular, are very high, typically resulting in a 0 on the exam or an F in the class :(

**Disabilities:** Students with disabilities who require reasonable accommodations should see me as soon as possible. In particular, any accommodation on exams must be requested at least a week in advance and will require a letter from DRES.

Sources of help

**Ask questions in class:** I still strongly encourage you to ask questions in the lecture. If you are confused about something, then several dozen other people are as well.

**Come to office hours:** If right after class does not work for you, you can make an appoint-
ment by sending me email or talking to me after class.

Other sources: A change of perspective is sometimes helpful to clear up confusion. Here are some sources, reserve at the Math Library in Altgeld Hall:


- If you manage to read it till this far, ask me in the class for one other sources that could be helpful.