MATH 2210-003: CALCULUS III

SYLLABUS FALL 2012

1. Course Information

Meeting place and time: MW 18:00-19:30, LCB 219
Instructor: Chenyang Xu,
LCB 114, email: cyxu@math.utah.edu,
Tel: (801)-585-1643
Office Hour: MW 17:00-18:00.
Course website: http://www.math.utah.edu/~cyxu/math2210

2. Course Content

Text: Calculus 9th edition, by Varberg, Purcell, Rigdon
Supplements: Graph paper is recommended. Calculators will be useful in class and on assignments but are not allowed during exams. This means, for example, that you should know the trig values for fundamental angles, such as 0, \(\frac{\pi}{6}\), \(\frac{\pi}{4}\), \(\frac{\pi}{3}\), \(\frac{\pi}{2}\).
I will try to keep calculations relatively simple on exams.
Material Covered: This course is an introduction to vector and multidimensional Calculus. It begins with the study of curves and vectors in two and three dimensions. We then study differentiation and integration in two or more variables. The course ends with line and surface integrals and Green’s and Stokes’ theorems. The material covers chapters 11 through 14 of the text.
Prerequisite: To enroll for this course, you must have at least a C grade in Calculus 2 (Math 1220).

3. Course Structure

Exams: There will be three midterm exams that emphasize the most recent material. There is also a comprehensive final exam. Each exam is given in our classroom.
Assignments: A list of assigned problems will be distributed that allows you to practice and apply ideas discussed in class. These problems will not be collected.
Grade: The four exams each count 25 percent. There are no make-ups or retests. So please plan to attend the exams.
Grading scale: 93-100 A 90-92 A-
87-89 B+ 83-86 B 80-82 B-
77-79 C+ 73-76 C 70-72 C-
67-69 D+ 63-66 D 60-62 D-
Note: The Americans with Disabilities Act requires that reasonable accommodations be made for students with physical, sensory, cognitive, systemic, learning, or psychiatric disabilities. Contact me at the beginning of the semester to discuss those accommodations that you may need for this course.

Tentative Schedule:

- Week 01 (8/20): Sections 11.1-11.2
- Week 02 (8/27): Sections 11.3-11.4 Last day to drop classes 8/29
- Week 03 (9/3): Sections 11.5-11.6 Labor Day 9/3
- Week 04 (9/10): Sections 11.7-11.8
- Week 05 (9/17): Sections 11.9, 12.1 Exam 1 on Monday 9/17
- Week 06 (9/24): Sections 12.2-12.4
- Week 07 (10/1): Sections 12.5-12.7
- Week 08 (10/8): Fall Break
- Week 09 (10/15): Sections 12.8-12.9
- Week 11 (10/29): Sections 13.3-13.4
- Week 12 (11/5): Sections 13.5 and 13.7
- Week 13 (11/12): Sections 13.8-13.9 Exam 3 on Monday 11/12
- Week 15 (11/26): Sections 14.3-14.5
- Week 16 (12/2): Section 14.6-14.7

Final on Friday 12/7. 17:30-19:30 in our classroom. Covers mostly the remaining material. Please do not ask to take the exam early.