Math 2210 - Syllabus

University of Utah

Summer 2007

1 Basic Information

Instructor - Patrick Dylan Zwick
Email - zwick@math.utah.edu
Phone - 801-651-8768
Office Hours - Tuesdays and Thursdays 12:30 PM - 1:30 PM
Office - LCB Math Building Loft (4th Floor)

Meeting Time - *MWF* 12:30 PM - 1:30 PM
Meeting Location - JTB 130

Textbook - Calculus by Varberg, Purcell, and Rigdon 9th edition

2 Course Description

Math 2210 is a third semester calculus course that covers what can be broadly termed multivariable calculus. You are expected to know and understand single variable calculus as covered in 1210 and 1220 before taking this class. In this class we expand the ideas learned in single variable calculus to cases with more than one variable.

We will study the basics of multivariable geometry and space, and then in this environment use ideas from calculus to study more advanced concepts such as directional derivatives, multiple integrals, line integrals, and the major theorems of vector calculus.

3 Homework and Grades

3.1 Homework

Homework for this class will be through an online system called webworks. Basically, you will have an account with webworks and it will keep track of your grades on the different homework assignments. Using webworks, each week you'll be asked to work between 12 and 15 problems, and webworks will keep track of your solutions and tell you when you've got it right.

Homework assignments will be due each Tuesday at 11:59 PM, and a new homework assignment will go online immediately after the previous one is due. An exception to this will be the week of June 24th, when no homework will be due.

Note - Webworks is strict about deadlines, so make sure you finish your work on time!

The webworks homepage for this class is -
http://webwork2.math.utah.edu/math2210summer2007-1

3.2 Exams

There will be two quizzes on chapters 11 and 13, a midterm covering chapters 11 and 12, and a final covering chapters 11 throuth 14. The material on the midterm and final will be chosen so that no chapter receives "preferential treatment." So, the final will focus more on chapter 14 than the other chapters, and less on chapter 11.

3.3 Grades

The grade breakdown for the class will be:

Homework - 30%
Quizzes - 20%
Midterm - 20%
Final - 30%

If you do better on the final than on one of the quizzes or the midterm, I'll make the final worth 40% of your grade and either drop the lowest quiz

or count the midterm for 10%, whichever most helps your final score.

4 Schedule

We will move through the textbook pretty quickly. Here are the sections we will be covering on the given class days:

May 14th - Introduction
May 16th - 11.1 - 11.2
May 18th - 11.3 - 11.4
May 21st - 11.5
May 23rd - 11.6 - 11.7
May 25th - 11.8
May 28th - Memorial Day
May 30th - 11.9
June 1st - 12.1
June 4th - 12.2
June 6th - 12.3
June 8th - *Chapter 11 Quiz*
June 11th - 12.4
June 13th - 12.5
June 15th - 12.6
June 18th - 12.7
June 20th - 12.8
June 22nd - 12.9
June 25th - *Midterm*
June 27th - No Class
June 29th - 13.1 - 13.2
July 2nd - 13.3 - 13.4
July 4th - Independence Day
July 6th - 13.5
July 9th - 13.6
July 11th - 13.7 - 13.8
July 13th - 13.9
July 16th - 14.1
July 18th - 14.2
July 20th - *Chapter 13 Quiz*
July 23rd - 14.3
July 25th - 14.4
July 27th - 14.5
July 30th - 14.6
August 1st - 14.7

The final exam will be on Friday, August 3rd from 12:30 PM to 2:30 PM in our usual classroom.