

Math 2210 - Syllabus

University of Utah

Fall 2008

1 Basic Information

Instructor - Patrick Dylan Zwick

Email - zwick@math.utah.edu

Phone - 801-651-8768

Office Hours - 10:30 AM to 11:30 AM on Mondays
and 3:30 PM to 4:30 PM on Tuesdays.

Office - JWB (John Widtsoe Building) Room 214

Meeting Time - *MWF* 11:50 AM - 12:40 PM

Meeting Location - LCB 219

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

There will be weekly homework assignments. I've decided not to use webworks and to instead do things the old fashion way. So, the assignments will be problems from the textbook. Each Wednesday I will announce in class the assigned problems for that week, and I will also post the assigned problems online. I will write up and post solutions two days after the assignment is due, and the assignments will be graded and returned within a week.

3.2 Exams

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

3.3 Grades

The grade breakdown for the class will be:

Homework - 30%

Quizzes - 40%

Final - 30%

I'll drop the lowest quiz score, so only your two highest quiz scores will be used in calculating your quiz percentage. This allows you to possibly miss a quiz without seriously harming your final grade. Also, if your final is better than your second highest quiz, I'll count the final for 40% of your final grade, and your second highest quiz for only 10%.

4 Schedule

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

August 25th - Introduction
September 1st - Labor Day
September 8th - 11.5
September 15th - 11.8
September 22nd - 12.2
September 29th - 12.4
October 6th - 12.7
October 13th - Fall Break
October 20th - 12.9
October 27th - 13.2
November 3rd - 13.4
November 10th - 13.7
November 17th - 13.9
November 24th - 14.2
December 1st - 14.4
December 8th - 14.6

August 27th - 11.1
September 3rd - 11.3
September 10th - 11.6
September 17th - 11.9
September 24th - 12.3
October 1st - 12.5
October 8th - 12.8
October 15th - Fall Break
October 22nd - 12.9
October 29th - 13.3
November 5th - 13.6
November 12th - 13.8
November 19th - 14.1
November 26th - 14.3
December 3rd - 14.5
December 10th - 14.7

August 29th - 11.2
September 5th - 11.4
September 12th - 11.8
September 19th - 12.1
September 26th - *Quiz*
October 3rd - 12.6
October 10th - No Class
October 17th - Fall Break
October 24th - 13.1
October 31st - *Quiz*
November 7th - 13.7
November 14th - 13.8
November 21st - *Quiz*
November 28th - No Class
December 5th - 14.5
December 12th - 14.7

The final exam will be on Thursday, December 18th from 10:30 AM to 12:30 PM in our usual classroom.