MATH 375 - Topics in Multivariable Calculus and Linear Algebra

Fall 2013 Syllabus

MWF 8:50am-9:40am and 1:20pm-2:10pm

Instructor: Saverio Spagnolie
Office: Van Vleck Hall, Room B115 (morning session) and B139 (afternoon session)
Office hours: MWF 10am-11am
Email: spagnolie@math.wisc.edu
Course website: piazza.com/wisc/fall2013/math375

Textbook:
Tom M. Apostol, *Calculus - Volume II*, second edition

Course Content:
This course is the third semester of the Calculus Honors sequence developed by the Mathematics Department. The object of the course is to present the subjects of linear algebra and multivariable calculus and the interrelation between their mathematical ideas.

Exam dates:
Two midterm exams will be held during the evening. Approximate dates are: Wednesday, Oct. 9 and Wednesday, Nov. 13.

Final exam times:
The final exams will be held on Wednesday, Dec. 18, at 12:25pm-2:25pm (morning session) and 5:05pm-7:05pm (afternoon session). You must attend the final exam period that is assigned to your registered section.

Homework:
Homework will be assigned weekly. You are allowed (and encouraged) to work with others, but you must turn in your own assignment.

Respect / Honor code:
By enrolling in this course you have tacitly entered into an unwritten contract with the instructors for mutual respect. Your instructors will show you respect and earn their own by working hard to deliver a well organized and thought out learning experience for you, with the goal of making you better thinkers and workers for all your future endeavors, mathematical and otherwise. In turn, you will earn your respect and show it in return by working hard, and working honestly. (Anyone caught cheating will be subject to a failing grade in the course and also further administrative action at the university level. Please, *please* don't waste my time and yours with this nonsense.)

Many people of all ages now have an exceptionally low threshold of discomfort, and this is exacerbated by the escapist and calming effect of an adult pacifier, the cell phone. A critical component to your education in mathematics and generally is expanding your tolerance for certain types of mental discomfort. Learning and listening intently is frequently going to be uncomfortable, but in the end you will truly be stronger for it. Your instructors are disrespected when you are texting/emailing/web-surfing in class.

Miscellaneous:
You are expected to attend class regularly. If you cannot attend your section then you can attend the other section, though this is subject to the availability of space in the classroom. There may be pop quizzes that will not be graded, but will help to show you how well you do or do not understand the material.

Grading:
The final grade will be set by scores on homework (10%) two midterm exams (30% each) and on a final exam (30%). The scores will give me a basis for estimating where you fall on the following spectrum for your letter grade. I aim to assign the following meanings to letter grades:

- A - The student has a firm understanding of the material presented in class, and could teach much of the material to others.
- B - The student has a good understanding of the subject, and could engage in a meaningful conversation about some related topics.
- C - The student has a reasonable understanding of some of the material, but would be hard pressed to discuss the subject with much depth, and may struggle in subsequent courses as a consequence.
- D - The student has not reached a sufficient level of understanding of the material to progress onward to other subjects.
- F - The student has not learned enough of the material to earn credit for the work done in the course.