Instructor. Tara S. Holm
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   Office phone: (607)255-2392
   Office hours: To be determined; temporarily Tu 1pm–2pm, W 3pm–4pm.
   Web page: http://www.math.cornell.edu/~tsh/223.html

TA. Igors Gorbovickis
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Lectures. TuTh 11:40am–12:55pm in 251 Malott.
Section. W 7:30pm–9:55pm in 532 Malott.

The Course. Math 223 is an advanced and rigorous introduction to linear algebra and multivariate calculus. The material in the course will be presented in a concrete but rigorous fashion – we will use examples to illustrate and gain intuition for the theory and will use proofs to understand and mathematically justify the theory. Major goals of the course are for you to develop the ability to read and write mathematical proofs and to become an active participant in learning and understanding mathematics. This is a demanding course: you should expect to work 10–15 hours (or more!) per week outside of lectures. Nevertheless, the rewards are well worth the effort. You will discover firsthand the beauty and fun of mathematics!

   Please take 15 or 20 minutes before each lecture to read the sections of the books that will be covered. It helps to be familiar with the terminology we will use and the theorems that we will discuss. The lecture schedule will be available on the course web site.

Warning: There will be some correlation between our text and the lectures, but we will cover material that is not in the book, and we may do some things differently. What matters for the exams is what material is covered in lectures and in the homework!

Academic integrity. As always, you are expected to abide by the Cornell Code of Academic Integrity. This states, “A Cornell student’s submission of work for academic credit indicates that the work is the student’s own. All outside assistance should be acknowledged, and the student’s academic position truthfully reported at all times.”
Homework. There will be approximately twelve problem sets over the course of the semester. Your lowest problem set grade will be dropped when computing your final homework grade.

**No late homework will be accepted!**

Problem sets will be handed out roughly every Thursday, and will be due the following Friday. You may work together on your assignments, and you are encouraged to do so. However, you must write up your final solutions by yourself. Your work must be written neatly and legibly. Proofs should be written in complete English sentences. Your homework score will be determined not only by the correctness of the responses, but also by the correctness of the grammar.

Exams. There will be two prelims and a final exam. The first prelim will take place in class, and will be closed-book, no calculators. The second prelim will likely be a take-home exam: you will be allowed to consult your text and your course notes, but you should not discuss the exam with your fellow students. You will have one week to complete that prelim. The final exam will be a timed exam, again closed-book, no calculators. These will take place as follows.

- Final Exam: Friday, December 7, 2007, 2:00–4:30pm.

**Warning:** There will be no make-up exams, except in extreme circumstances. In the rare case that a make-up exam is granted, it will be an oral examination.

Grading policy. For computing final grades, the components will be weighted in the following way:

- Each prelim – 20%,
- Problem sets – 30%, and
- Final exam – 30%.

If you have questions about homework, exams, or grades, please come talk to me during my office hours or send me email.