Instructor: Ethan Devinatz
            Padelford C-554
            phone: 685-4777
            e-mail: devinatz@math.washington.edu
            web: http://www.math.washington.edu/~devinatz

Office hours: Monday and Wednesday 3:30-4:30, and by appointment.

About the course and prerequisites: The purpose of this sequence is to provide
senior undergraduate and first-year graduate students with a rigorous introduction
to the basic elements of analysis (limits, differentiation, and integration). We will
emphasize careful definitions and rigorous proofs.

This quarter, we will cover differentiation in one and several variables (Chapters
5 and 9 in the text). I also plan to cover Riemann-Stieljes integration (Chapter 6)
together with some topics from Chapters 7 and 8.

Text: Principles of Mathematical Analysis, 3rd edition, by Walter Rudin. This
book is available at the University Bookstore.

Homework: Homework will be assigned more or less weekly and will require you
to write careful proofs. It is expected to be demanding. Most of your homework will
consist of problems from your text, but I will also be writing additional problems.
Although you are encouraged to share ideas on homework problems with your
classmates, I expect you to actually write your homework on your own. If you use
sources other than the assigned text and your lecture notes to do the homework,
you must reference them; otherwise you are committing academic fraud. I am
well aware that solutions to all of the problems in Rudin are easily found on the
Internet. You are not permitted to use these to do the homework. In addition, you
may not make use of any sort of discussion boards involving people outside the class
for homework assistance. If you violate these rules on any homework assignment,
you will receive a 0 on that assignment. In principle, late homework will not be
accepted.

Exams: There will be a midterm and a final exam. The midterm will be given in
class and is tentatively scheduled for Friday, February 13. The final exam will be
on Wednesday, March 18 from 2:30–4:20.

Absences from the midterm will be dealt with on a case by case basis. Only
under unavoidable emergencies (e.g., illness, death in family) will you be allowed
to miss an exam without penalty. Such emergencies should be documented if at
all possible. Note, however, that if you take an exam you cannot claim illness as an excuse for doing poorly. In certain other situations (e.g., athletic meets, family obligations), you may arrange to take an exam early. This must, however, be set up well in advance and does not apply to the final. I will follow the procedures outlined in the “Examination Guidelines” (look under Academic Calendar and Final Exam Schedule) in dealing with final exam absences.

**Grading:**
- Graded Homework: 25%
- Midterm: 30%
- Final: 45%

The grade of I (incomplete) will be given only under the conditions in the *University of Washington General Catalog* (under "Grading Systems").