

Advanced Calculus  
**MATH 151A - SPRING 2008**

Class Hours

**Lectures:** Sproul 2361, MWF 9:10-10:00 am

**Discussions:** Sproul 2343, T 9:10-10:00 am

Syllabus

This is the first Advanced Calculus course. We will cover the following subjects:

- *The Real and Complex Number Systems*
- *Basic Topology*
- *Numerical Sequences and Series*
- *Limits and Continuity of Functions*
- *Differentiation*
- *The Riemann-Stieltjes Integral*

Instructor

**Aviv Censor**

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Office Hours: Surge 232, W 11:10-12:00, F 10:00-11:00

Teaching Assistant

**Tiffany Troutman**

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Office Hours: Surge 262, R 1:30-3:00, or by appointment

Text Book

*Principles of Mathematical Analysis (3<sup>rd</sup> Edition)* by W. Rudin (Chapters 1 - 6).

## Exams

- Midterm (**30%**): Friday, May 2 (tentative)
- Final Exam (**50%**): Thursday, June 12, 08:00 - 11:00 am

## Homework

Your weekly homework assignments will be posted on iLearn (<http://www.ilearn.ucr.edu>). Homework should be handed in every Tuesday during discussion. Late homework will not be accepted. The homework assignments will account for **20%** of the final grade.

## Course Attitude

Calculus is like swimming or bicycle riding. You can't learn by watching someone else, even if that someone is Michael Phelps or Lance Armstrong, and even if you (think you) understand everything they are doing. You must jump into that pool or get on that bike by yourself. You need to practice a lot.

You are here to learn Calculus. This is a challenging course and the pace is fast. So (take a deep breath): Come to **all** classes. Participate. Do homework. Ask questions. Take advantage of office hours. Work hard.

We want you to succeed. Furthermore, we are nice people :) and we will do our best to help you succeed. And (believe it or not), just like swimming or biking, math can be fun!

## Course Policies

We will be strict regarding the following issues:

- You are expected to attend all lectures and recitations in which you are enrolled.
- All Exams are with closed books and notes. You may **not** use any calculators, cell-phones, i-pods or any other electronic devices.
- There will be no make-up exams.
- Grades should be earned honestly. Any form of cheating will result in a final F grade, and will also be reported to the appropriate authorities.

Remark: If you have a disability and the University has determined that you require special accommodations, please provide appropriate documentation by April 14, 2008 so that we may plan for you accordingly.