

UNIVERSITY OF CALIFORNIA-BERKELEY  
DEPARTMENT OF MATHEMATICS  
**Math 104, Fall 05**

**Lectures.**

Time MWF 13:10 - 14:00

Place 71 Evans Hall

**Instructor.**

Name Olga Holtz

Office 821 Evans Hall

Telephone 642-2122

Email [holtz@math.berkeley.edu](mailto:holtz@math.berkeley.edu)

Office hours WF 14:00 - 15:00 and by appt.

**GSI.**

Name Darren Rhea

Office 891 Evans Hall

Office hours M 8:00 - 13:00, T 8:00 - 11:00, 3:30 - 5:30

**Goals of the course.** The course is meant to serve as a rigorous introduction to real analysis.

**Approximate content of the course.** The real and complex number systems. Countable and uncountable sets. Metric spaces. Compactness. Connectedness. Numerical sequences and series. Continuity. Differentiation. The Riemann-Stieltjes integral. Sequences and series of functions.

**Books.** PRINCIPLES OF MATHEMATICAL ANALYSIS by Walter Rudin, REAL MATHEMATICAL ANALYSIS by Charles Pugh.

**Homework and grading.** Homework will be assigned about once a week, due the following week. The final grade will be based on homework (30%), midterm (30%) and a final (40%).

**Class email.** I welcome communication by email and intend to send homework-related email to the class.

**Class website.** <http://www.cs.berkeley.edu/~oholtz/104>