MATH 520: Foundations of Analysis

Syllabus - Spring 2005

Instructor: Marianne Korten
Office: Cardwell 234, 532-0567
Office Hours: Wednesdays 11:30

Textbook:
While this book is currently out of print, we have permission to make copies. Varney's has copies available.
For additional readings and work I will occasionally use
The Number Devil, Hans Magnus Enzensberger, Henry Holt & Company.

Course description:
An introduction to the basic concepts of analysis: Sequences and series, functions and continuity, and differentiation and integration. The focus is on the development and cultivation of the student's abilities to work in an abstract setting with precise definitions and logical and complete proofs.

Grading policy:
Attendance and participation are required. Final grades will be based on written work and participation, as follows:
30% for homework, 30% for the midterm, 10% for your work in class / participation (this includes working on problems in class and discussion of assigned additional readings), and 30% for the final.

Homework will be assigned weekly. You are encouraged and expected to work on the homework exercises in groups, and to subject your work to revision by classmates before handing it in. You are expected to use the advanced help sessions staffed by the mathematics department to clear doubts and questions and fine-tune your proofs.

Journal
Here I will post your (roughly weekly) assignments.