

REAL ANALYSIS

Instructor: Jan Wehr, Mathematics 720, 621-2834, wehr@math.arizona.edu

Office Hours: M W 3:00 - 4:00

Classes: M W F 9:00 - 9:50, Mathematics 501. There will also be a one-hour problem session per week, the time will be announced later.

Texts: E.M. Stein and R. Shakarchi: "Fourier Analysis" and "Real Analysis". Both books are available from the U of A Bookstore. They are also on reserve in the Science-Engineering Library.

Course Organization

The course will cover substantial parts of the Stein-Shakarchi books. The material will be taught in class in detail, with occasional reading assignments. Exercises from each covered section will be assigned as homework and collected two weeks later. Each chapter in the texts also contains problems (more difficult than exercises). Students will be asked to choose one problem from each chapter covered. Each exercise will be worth 1 point and a problem—3 points. More problems can be done for extra credit. There will be a written final exam. The course grade will be based on the homework score (80%) and on the final (20%). 90% guarantees an A, 80%—a B, 70%—a C and 60%—a D.