

Math 493. Fall, 2009.

Instructor: A. Baernstein, Cupples I, 201, 935-6748. al@math.wustl.edu

Office Hours: Monday 3:00-4:00, Thursday 3:00-4:00, and by appointment.

Text: A First Course in Probability, 8'th Edition, by Sheldon Ross. I hope to do part of each of the 10 chapters in the book.

Homework: Many weeks there will be problem sets to be handed in. These will be graded. I will also recommend other problems, for practice.

The course: Mathematical theory and applications of probability at the advanced undergraduate level. Topics include basic combinatorics, conditional probability, Bayes's Theorem, random variables and their distributions, means and moments, special distributions, and the central limit theorem.

Prerequisites: Calculus, including multivariable calculus. Additional 300- or 400-level math courses such as Math 310 (Foundations of Higher Math) are strongly recommended.

Exams. Midterms on Wednesday September 30 and Friday, November 6. Final on Tuesday, December 15, 6-8 PM.

Course grade: Will be mainly based on performance on hand-in homework and exams. Details will be determined later.

Class meets: MWF 2:00-3:00, in Cupples I, 115.

Website: Homework assignments and other handouts will be posted in my public directory on the Math Department website, [www.math.wustl.edu/al/xxx.pdf](http://www.math.wustl.edu/al/xxx.pdf), where xxx is the name of the file and there should be a tilde sign in front of the al.