

Syllabus for Math 3770, Prob and Stats

January 2, 2009

Instructor: Ernie Croot

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Course Webpage: www.math.gatech.edu/~ecroot Click on the Math 3770 link from the main page.

Office: 103 Skiles

Office Hours: Tuesday 2:00 to 3:00, and Wednesday 3:00 to 4:00.

Class Meeting Times: MWF 2:05 to 2:55 in College of Computing room 17.

Textbook: Devore's *Probability and Statistics for Engineering and the Sciences, Seventh Edition*. Because the text doesn't cover all the topics I would like to discuss in this course, I will probably write some course notes once in a while.

Grade: 20% for each of the first two midterms, 30% for homework, and 30% for the final.

Absentee policy: If you miss an exam or are not able to turn in a homework due to an emergency, you will need to provide documentation attesting to this fact.

Homeworks: Homeworks will be collected about once every two weeks.

Course Material: In this course you will learn the basics of

- Probability theory, which will include a large subset of the topics: probability measures, events, sample spaces, density functions, distributions, conditional probability [Bayes's rule], etc.).

and

- Statistics, which will include a large subset of: statistical sampling, mean, variance, confidence intervals, maximum likelihood estimates, student-t distribution, normal approximations.