Math 152, Fall 2006
Mathematical Statistics – ML 208
Professor Hardin

Instructor:
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office hours: M 10-11:30am and W 2:30-4pm, or by appointment

Text: *Introduction to Mathematical Statistics*, by Hogg, McKean, and Craig

Exams: We will have two midterm exams (probably on Thursday, October 12th and Tuesday, November 21rd) and a final exam (Monday, December 12th, 9am)

Prerequisites: The prerequisites for this class are Probability (Math 151 or equivalent) and completion of the sequence of calculus and linear algebra. We rely heavily on these prerequisites, and students with no background in probability or multivariable calculus will find themselves trying to catch up throughout the semester. You should be familiar with topics such as conditional probabilities and expectations, the Central Limit Theorem, moment generating functions, and probability density functions.

Description: This is an introduction to mathematical statistics for students with a calculus and probability background. Though the course will be focused on the theoretical aspects of the material, there will be some real world examples in class and in the homework assignments. The idea is to have a strong mathematical understanding of the concepts while also understanding how the concepts are used in the real world.

Homework

Homework will be assigned from the text on a weekly basis. No late homework is accepted, but one homework grade will be dropped.

Participation

The participation grade is based on willingness to participate in class discussions and other activities. We will have in class activities that will be graded based on participation only. We will also have daily warm-up problems that will be graded and counted toward your participation grade.

Academic Honesty:

I hope you will work together on your homework and projects for this class. Thus, several of you might collaborate to find a solution for a homework problem. However, each individual should write up every solution according to his or her understanding of it. Ideally, you will write up your homework alone after collaborating with your classmate(s). No copying of solutions is permitted.

Exams will be closed-book, closed-notes. You will be allowed a calculator and one sheet of 8.5 x 11in paper for each exam.

Grading:

26% Homework
42% Two midterm exams
26% Final Exam (Cumulative)
6% Class Participation

(Grades will be assigned on the usual scale: 90-100 = A; 80-90 = B; etc...)

Success:

Success in this class will come with keeping up with the material. Please feel free to stop by, email, or call if you have any questions about or difficulty with the material, the homework, or the course. Come see me as soon as possible if you find yourself struggling. The material will build on itself, so it will be much easier to catch up if the concepts get clarified earlier rather than later.