Mathematical Statistics I — Stat 6710, Section 001, Fall 1999

Instructor: Dr. Jürgen Symanzik
Office: Lund 325
Phone: 797–0696
FAX: 797–1822
e–mail: symanzik@sunfs.math.usu.edu
WWW: http://www.math.usu.edu/~symanzik/
http://www.math.usu.edu/~symanzik/teaching/1999_stat6710/stat6710.html
Office hours: MWF 10:30am – 11:30am and by appointment

Text: *An Introduction to Probability Theory and Mathematical Statistics*
by Rohatgi, V. K. (1976), John Wiley and Sons, New York

Classes: MWF 11:30am – 12:20pm
August 30 – December 10, 1999

Room: **Geol 310**

Course Objectives:

1) This course and its sequel, Stat 6720, will work through Rohatgi fairly linearly. However, I reserve the right to skip around or bring in some outside material. Rohatgi will be the only textbook for this sequence.

Course Requirements:

0) Prerequirement: Although I will not insist on any specific course as a prerequisite, knowledge similar to "Theory of Probability and Introduction to Mathematical Statistics" (preferably at a strong enough level to pass the masters qualifying exam in probability and statistics) is highly desireable. Also valuable, but not required, are good backgrounds in linear algebra and advanced calculus. If you are concerned about your preparation, please contact me.

1) Class Attendance: You are responsible for all material assigned as required reading and/or presented in lecture.

2) Lecture Notes: Lecture notes will be prepared by one student each lecture and distributed (after consulting with me) to the entire class within a week. The preparation of lecture notes is worth a total of 20% (200 points) of your course grade.

3) Homework: Assignments will be handed out in class every second week. Homework will be collected in class two weeks thereafter. Homework mailed in, sent by FAX, or sent by e-mail by the due date will be accepted as well. In general, late homework will not be accepted. Homework assignments are worth a total of 20% (200 points) of your course grade. To obtain full credit, you must show your work leading to the correct answer. However, even if your answer is wrong, you will probably receive at least partial credit if you show your work, but not otherwise. If you like, you may work in groups on the homework assignments. In fact, you are encouraged to do so. However, each person must turn in an individual homework solution sheet. Photocopies are not permitted.

4) Software: This course will not focus on any particular statistical software package. You can use any statistical package you want for the homework assignments.

5) Midterm: There will be a midterm exam the week of October 4th worth a total of 25% (250 points) of your course grade.

6) Final: There will be a 2 hour, 350 point (35%) comprehensive final exam. Midterm and final will consist of problems like those in the homework assignments. You are allowed to use a 2–sided note sheet for each of the exams. Lecture notes and textbooks are not allowed in any of the exams.

7) Disabilities: If a student has a disability that will likely require some accommodation by the instructor, the student must contact the instructor and document the disability through the Disability Resource Center, preferably during the first week of the course. Any requests for special considerations relating to attendance, pedagogy, taking of examinations, etc. must be discussed with and approved by the instructor. In cooperation with the Disability Resource Center, course materials can be provided in alternative formats — large print, audio, diskette or Braille.

Grading System:

Final	35%	350 pts
Midterm	25%	250 pts
Homework	20%	200 pts
Lecture Notes	20%	200 pts
Total	100%	1000 pts

Course grades will be generally comparable (in terms of distribution) with grades assigned in other graduate statistics courses.

The above schedule and procedures in this course are subject to change in the event of extenuating circumstances.