

## Stat 345 Syllabus

### STAT 345-001: ELEMENTS OF MATHEMATICAL STATISTICS AND PROBABILITY

**SPRING 2006**  
**TR 2-3:15 PM**  
**DSH 223**

**PROFESSOR:** Prof. Ron Schrader

**E-MAIL:** [schrader@stat.unm.edu](mailto:schrader@stat.unm.edu)

**OFFICE:** Humanities 435

**OFFICE HOURS:** TR 12:30-1:30 PM, W 1:30-2:30 PM, or by appointment

**PHONE:** 277-7423

**TEXT:** *Applied Statistics and Probability for Engineers, 3rd Edition* by Douglas C. Montgomery and George C. Runger, John Wiley and Sons, Inc., 2003.

**COURSE WEB PAGE:** <http://www.stat.unm.edu/~schrader/stat345/stat345002.html>  
(specific to this section only)

**OBJECTIVES:** This course provides an introduction to probability theory and statistical inference. The theory of probability is the primary mathematical tool used in statistical inference and therefore this course will concentrate heavily on probability. The course has been designed for computer science and engineering students; however, it is broad enough for students from outside these disciplines. Generally, there are some students enrolled from geology, biology, statistics, and math. We will cover most of Chapters 2 through 5, and portions of Chapters 6-10.

**PREREQUISITES:** Two semesters of calculus. This course relies heavily on your knowledge of the first year of calculus: sums and series, differentiation, and integration. It is very important for you to review your knowledge of calculus if needed.

#### EXAM DATES AND WEIGHTS:

Quizzes	Most weeks	20%
Examinations		
	Thursday, February 16	25%
	Tuesday, April 4	25%
Final	Tuesday, May 9, 12:30-2:30 pm (see <a href="http://www.unm.edu/~unmreg/Final_Sched_055.pdf">http://www.unm.edu/~unmreg/Final_Sched_055.pdf</a> )	30%

#### HOMEWORK:

Homework will be assigned but not graded. You are encouraged to work together in groups on homework to solidify your knowledge of the material. If you miss a class, be

sure to check with your work group to see what you missed, if there were new assignments, or if there were any changes in quiz or test dates. Solutions to the homework assignments will be posted on the course web page.

### **QUIZZES:**

There will be an announced quiz (15 minutes) about once per week. There will be **no make-up quizzes**. Quizzes are designed for you to see how well you understand the material and may be interpreted as extra credit. No other extra credit will be offered in the course. Quizzes will generally consist of problems similar to homework problems or examples worked out in class. I will throw out your three lowest quizzes when calculating your average.

### **OTHER COURSE INFORMATION:**

You are responsible for all material covered in class, in assigned readings, and on homework assignments. You are expected to attend class. I encourage you to come to my office hours whenever you have any questions concerning the course.

### **UNM DISABILITY STATEMENT:**

Qualified students with disabilities needing appropriate academic adjustments should contact me as soon as possible to ensure your needs are met in a timely manner. Handouts are available in alternative accessible formats upon request.