

STAT 770/BIOS 805 SYLLABUS  
Spring 2007

John M. Grego  
MW 12:30-1:45 Leconte 210B  
Office Hrs: MW 2:30-4:00

200F Leconte  
777-5110  
grego@stat.sc.edu

**Text** *Categorical Data Analysis, Second Edition* by Alan Agresti

**Attendance** Though attendance is rarely a problem with graduate students, I would like to note that my policy corresponds to the policy stated in the student handbook: If you miss more than 10% of your classes (> 3 classes), the teacher may choose an appropriate penalty. I will deduct 2% from your final class average for each additional day that you miss after the third absence.

**Grading** Grades will be weighted in the following way:

Take-home Mid-term exam	100 points
Homework/Classwork	100 points
Project	100 points
Take-home Final Exam	100 points
Total	400 points

The project will be a data analysis or methodology project that can be undertaken with a partner (or partners) and will consist of computer work (25%), final draft (50%) and oral presentation (25%). I use the project to enhance (or reinforce) several skills you will need in your future (or current) career: written and oral communication, practical problem-solving and teamwork. The oral presentation should provide useful practice for professional presentations.

For portions of the course in which the text is exemplary (and that's much of the class), we will have lectures that emphasize active learning. You will come to class having thoroughly read the day's material, and prepared answers to a set of exercise questions. After group discussion of the exercise questions, any remaining questions will be cleared up by me. We will then close the period with either a group activity to reinforce the material or a lecture on advanced topics. This approach is based on the Brigham Young University undergraduate program. Again, grades will be based on participation level.

**Computers** I will maintain a class web page that will be used to communicate homework assignments, post copies of course-related materials and otherwise update the syllabus. The URL for the class web page is <http://www.stat.sc.edu/~grego/courses/stat770>.

I will use the computer/LCD projection system extensively in class for demonstrations and introduction of computer software. We will also convene occasionally in one of the workstation labs for group work on the computer. The group work will include data analysis and stochastic simulations.

We will be using two computer packages throughout the course. I tend to like to use the best available package for the job at hand and thus SAS and R will be used appropriately. Agresti has a tremendous amount of code available through his home page, but additional code will appear on my home page.

Date	Reading Assignment	Graded Work
1/17	Intro	
1/22	1	
1/24		
1/29		
1/31		
2/5	2 (Skip 2.3)	
2/7		HW 1
2/12		
2/14	3.1-3.3	
2/19		HW 2
2/21	3.4-3.6	
2/26		
2/28	4.1-4.3	HW 3
3/5		Midterm distributed
3/7	4.4-4.6	
3/19		
3/21	5	
3/26		
3/28	6	HW 4
4/2		
4/4	7	
4/9		
4/11		HW 5, Proposal Due
4/16		
4/18		
4/23		Project Due
4/25		Oral Presentations
4/30		Oral Presentations

The final exam will be due Monday, May 7.