

STAT 515, Honors Section, Statistical Methods I -- Fall 2006

Instructor:

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Course Web Page: <http://www.stat.sc.edu/~hitchcock/stat515honors.html>

Classes:

Meeting Times:

MWF 9:05 AM- 9:55 AM, LeConte College, Room 210A

Office Hours:

Mon 10:10AM-11:30AM, Tues 1:30PM-2:30PM, Wed 10:10AM-11:30AM, Thu 11:00AM-12:00 noon. Please feel free to make appointments to see me at other times.

Textbook:

Statistics (10th Edition), by J.T. McClave and T. Sincich, Prentice Hall, 2003.

Course Outline: Chapters 1 – 11 and 13 of the McClave & Sincich textbook. Topics covered include: descriptive statistics, elementary probability, sampling distributions, estimation, hypothesis testing, simple linear regression, and contingency tables.

Homework:

Homework exercises from the textbook are assigned on the course web page. Due dates will be posted given on the course web page. Late homework will be penalized.

You must do each homework problem independently. You may ask me for help on the homework problems. If homework is found to have been copied, all students involved will receive a 0.

Everyone is expected to do every problem. Please write up homework papers neatly and clearly. Many problems on the exams will be similar to homework problems.

Exams:

There will be two in-class midterm exams (September 27 and November 10) and a final exam on December 13. Exams may not normally be made up, except in extreme circumstances, for which written documentation of excuse (doctor's note, funeral notice, etc.) is required. If you suspect you may miss an exam day, it is important to contact me well in advance of the test date.

Project:

There will also be two projects involving collecting and analyzing a data set using the techniques learned in the course. The details of the projects will be handed out in class. You are encouraged to work in teams of up to three people per team on the projects.

Grading:

The course grade will be based on homework/quizzes (20%), project grade (15%), 2 midterm exams (20% each), and a final exam (25%). A course average of 90-100 will result in an A, 87-89 a B+, 80-86 a B, etc.

Computing:

Some problems in this course involve significant computations, and for these, we will learn to use the software package SAS. You will have an account on the CSM Windows-NT domain. Currently the computers in LC 124, LC 303A and PSC 102 have SAS. Student copies of SAS for home use are also available for purchase from the bookstore.

It is not assumed that you have any previous experience with SAS. In many industries and jobs, SAS is the standard statistical computing package used, and this course will introduce you to some of the most common SAS procedures.

Tentative Course Schedule: MWF, August 25 through December 8, except:

No class (Labor Day): Sept. 4 (Monday)

No class (Fall Break): Oct. 20 (Friday)

No class (Thanksgiving): Nov. 22, 24 (Wednesday, Friday)

September 27: Exam 1

November 10: Exam 2

Wednesday, December 13 (9:00 a.m.): final exam