

COURSE SYLLABUS FOR STAT 515---January 09, 2012 to April 23, 2012

Title: Statistical Methods I
Textbook: Statistics (11th Ed.), by McClave and Sincich, 2009, P. Hall

Instructor: Dr. Ou Zhao
Office: 221 LeConte
E-mail: ouzhao@stat.sc.edu

Office Hours: Whenever the door is open, or by appointment;
and regularly, MWF 2:30-4:00PM.

CA: TBA

Meeting Times: Section 001, MWF 10:10-11:00AM;
Section 003, MWF 01:25-02:15PM.

Meeting Places: LeConte 113 (section 001); Sloan 104 (section 003).

COURSE PURPOSE:

To familiarize students in a variety of fields with modern statistical methods, including the general areas of data description, elementary probability, and statistical inference. To prepare the students to further their study in statistical topics such as quality control, sampling, design of experiments, nonparametrics, time series analysis.

EXAMS:

There will be three exams and the final. The topics covered in the exams will generally follow the chapters of the text listed above. However, the exams may also cover materials which are solely presented in class, and that may well not be contained in the text at all. Notes and books will NOT be usable while taking the exams, but you will need calculators.

Dates: Exam I, 2/15(W); Exam II, 3/23(F); Exam III, 4/13(F).

Finals: Sct 001, 9:00AM 5/1(T); Sct 003, 2:00PM 4/26(Th).

LEARNING OUTCOME:

1. Be able to provide and interpret graphical and numerical summaries of a data set, using R package.
2. Understand and be able to apply simple principles of probability.
3. Understand and be able to apply basic statistical inferential methods, including estimating a parameter and testing a hypothesis about a parameter in real applications.
4. Solid foundation for linear regression analysis.

#####

HOMEWORK:

There will be about 8 homework assignments. Homework will be assigned at least one week in advance in class. The writing on the homework must be legible, the work used to obtain the answers must be shown and correct, and the final answers must be clearly indicated in order to receive full credit. You MAY work on the homework assignments with other students, but each student must write it up individually (i.e., no photocopies of another student's work).

#####

GRADES:

Breakdown: Homework=25%, Exam1=15%, Exam2=15%, Exam3=15%, Final Exam=30%

Occasional in-class quizzes may be assigned, satisfactory performance should lead to bonus points toward the final numerical grade. Details will be explained for each quiz. Small curves may also be applied to your final scores, but only for the benefit of students.

Final grade scale:	Grade	Percent (minimum)
	A	90
	B+	87
	B	80
	C+	77
	C	70
	D+	67
	D	60
	F	00

Any questions, involving the grading of a homework assignment or exam, must be raised by the class period following the one in which it was returned.

Graduate credit: students taking the course for graduate credit will be required to complete extra homework problems throughout the semester, as a portion of their homework grade.

#####

SPECIAL DATES:

- January 9, Monday Classes begin
- January 13, Friday Last day to change a course schedule or drop a course without a grade of "W" being recorded
- January 16, Monday Martin Luther King, Jr. Service Day
- February 27, Monday Last day to drop a course or withdraw without a grade of "WF" being recorded
- March 4-11, Sun-Sun Spring break - no classes
- April 23, Monday Last day of classes

#####