

Class Meeting Times: M W F 8:00 - 8:55 AM

Class Location: 216 Mann Hall

Instructor: Dr. Gentry White

Office: Patterson 210-C

Office Hours: By appointment, preferably via e-mail

Phone: 513-7676

Email: white@stat.ncsu.edu

WWW-page: <http://www.stat.ncsu.edu/people/white/courses/st361>

Course Description: This course provides an introduction to probability and statistics primarily for science and engineering students. Topics covered are as follows, but not limited to: Summarizing data both numerically and graphically, basic laws of probability, confidence intervals and hypothesis testing, and regression and experimental design.

Prerequisites: College Algebra

Required Text: *Applied Statistics for Engineers and Scientists*, by Devore and Farnum Thomson/Brooks Cole 2005 ISBN 0-534-46719-9

Software: Students in this course will be required to complete assignments using the SAS system. SAS software free to NCSU students and is available through Information Technology and can be used in many public labs around campus. Check the course website for links to SAS resources.

Attendance: I strongly recommend that you attend every lecture. Later sections depend upon the material from previous sections.

Homework: There will be 11 (possibly 12) homework assignments worth ten points each throughout the semester. The lowest (or lowest two) homework grade(s) will be dropped. Late homework will not be accepted under any circumstances.

Exams: There will be two in-class exams in addition to the final exam. All exams including the final will be closed book. A single page of notes (8 1/2 by 11) will be allowed for each exam and two such sheets for the final. There will be no make up exams given under any circumstances.

Final Exam: The final exam will be comprehensive and will be in class 8:00 AM Monday, April 28, 2008.

Here is a breakdown of where
your grade comes from:

Grading:	Homework	100 points
	Exams	200 points
	Final Exam	200 points

If you get the following scores
(out of 500 points) you will receive:

485-500	A+
465-484	A
450-464	A-
436-449	B+
415-435	B
400-414	B-
385-399	C+
365-384	C
350-364	C-
340-349	D+
310-339	D
300-309	D-
0-299	F

Academic Honesty: Work presented by students is expected to be wholly their own. That is not to say that collaborative efforts towards an understanding of the material presented in class and on homework assignments is discouraged. In this case care must be taken to insure that material presented as one's own is not the work of another student either wholly or in part. The presentation of another individual's work as one's own either wholly or in part is plagiarism. Individuals guilty of such an offense can expect to be punished as severely as possible. The University's policy concerning academic integrity is spelled out in Appendix L of the NCSU Code of Student Conduct, a more thorough explanation see the NCSU Office of Student Conduct website:

http://www.ncsu.edu/student_affairs/osc/.

Furthermore, students are at all time to abide by the NCSU Honor Pledge:

"I have neither given nor received unauthorized aid on this test or assignment".

Violation of this pledge on any assignment or exam, any instance of plagiarism, cheating on an exam or any other form of academic honesty will be punished as severely as possible, without exception.

Students with Disabilities: Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with Disability Services for Students at 1900 Student Health Center, Campus Box 7509, (919) 515-7653. For more information on NC's policy on working with students with disabilities, please see **Academic Accommodations for Students with Disabilities Regulations (REG02.20.1)**.

The following is a rough schedule of topics covered in this course

Week	Topics
Week 1	Introduction/Data Collection
Week 2	Numerical/Graphical Summaries
Week 3	Random Variables/Probability
Week 4	Probability Distributions
Week 5	Probability Distributions (cont'd)/Sampling Distributions
Week 6	Sampling Distributions (cont'd)/Review for Midterm 1
Week 7	Confidence Intervals
Week 8	Hypothesis Testing
Week 9	Spring Break
Week 10	Hypothesis Testing (cont'd)
Week 11	Hypothesis Testing (cont'd)
Week 12	Hypothesis Testing (cont'd)/Review for Midterm 2
Week 13	Regression
Week 14	Regression
Week 15	Experimental Design
Week 16	Experimental Design/Review for Final