

STAT 500 : Applied Statistics Spring 2006

M,W,F 1:25-2:15pm 214 Boucke Building

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Office Hours: M 2:30 - 4:00pm, Thur 2:00 - 3:30pm
or by appointment

Grader information: (will be announced on the course ANGEL site)

Aim: The course is an introduction to the basic concepts and methods of applied statistics. It is intended for graduate students who either have no prior statistics courses (some math skills assumed), or who wish to review the fundamentals before taking additional 500 level Statistics courses.

Textbook: *An Introduction to Statistical Methods and Data Analysis* by R. Lyman Ott and Michael Longnecker (5th edition) bundled with Minitab 14 student version. The textbook is on reserve in Physical and Math Science Library (PAMS) at 201 Davey Lab.

Grades:

Homeworks	20 %
Midterms:	50 % (March 1, April 5)
Project:	5 % (project due April 24)
Final Exam:	25 % (per University schedule)

Grading (tentatively): Course grades in each of the nine categories will be tentatively awarded based on the following lower bounds:

F	D	C	C+	B-	B	B+	A-	A
0	60	70	77	80	83	87	90	93

Exams: Midterm exams and final will be closed book and comprehensive. More focus will be given to material not covered in the prior exams. For midterm exams, you will be allowed to bring in a formula sheet made up by yourself. This sheet may comprise two pages of one sided 8.5x11 inches sheets. For final exam, you can bring three pages of one sided 8.5x11 inches sheets. No early or late exams will be allowed without a legitimate excuse.

Website: the ANGEL (cms.psu.edu) site of this course

Course Content: Chapters 1,2 (brief highlights only)
Most of Chapters 3-11 and part of Chapters 12, 13, 15

Solutions: Solutions for the homework assignments will be posted with a link to it from the homepage of Stat500. Solutions to most of the practice homework assignments can be found in the *Partial Student Solutions Manual for: An Introduction to Statistical Methods and Data Analysis* by R. Lyman Ott and Michael Longnecker which is on reserve in Physical and Math Science Library (PAMS) at 201 Davey Lab.

Home works: Homework assignments will be given and collected on Friday almost every week. You must show all work on the homework problems to get full credit. The lowest homework score will be dropped. Doing the homework promptly and carefully is necessary for learning the material. A reasonable amount of collaboration is allowed on homework. However, each student must turn in his or her own written work which reflects his or her own individual understanding of the material. **Late home works : (10 % off for each day late)**

Academic Integrity: All Penn State and Eberly College of Science policies regarding academic integrity apply to this course. See

<http://www.science.psu.edu/academic/Integrity/index.html> for details.