Statistics 6201
Mathematical Statistics
Autumn 2012 Syllabus

Instructor: Dr. John Draper
Email: draper.34@osu.edu
Office: CH 323 (Cockins Hall)
Phone: 292-0292
Website: Carmen

When: TWRF 8:00-8:55
Where: MH 115 (Mendenhall 115)
Office Hours: TR 9:30-10:30

Grader: Jieyi Jiang
Email: jiang.435@osu.edu
Office: CH 320
Office Hours: TBD

Course Description
Probability, random variables, expectation, moment generating functions, discrete and continuous distributions, limit theorems, maximum likelihood and Bayesian estimation, confidence intervals, hypothesis tests, Neyman-Pearson lemma, t and F tests.

Prerequisites
Math 2153 (254) or equiv, or permission of instructor. Not open to students with credit for 6301 (610) or 6801 (620)

Textbook
Probability and Statistics 4th edition by DeGroot and Schervish

Homework
There will be approximately 10 graded homework assignments throughout the quarter. The due dates for the assignments will be announced in class and on Carmen, and the assignments and solutions will be posted on Carmen. You must show your work for all homework problems; do not just write the final answer.

Exams
Two midterm exams will be given in class. The first will (tentatively) be on Friday Sept. 21 and the second on Friday Nov. 2. For each test, you will be permitted one sheet of 8.5” x 11” paper with whatever handwritten facts, formulas or explanations you find helpful may be brought to each midterm exam (both sides of the paper may be used). The final exam is on Tuesday Dec. 11th from 8:00-9:45. Two 8.5” x 11” sheets of paper (same rules as above) may be brought to the final. The final exam will be cumulative, with a slight emphasis on those topics covered after the second midterm. A calculator should also be brought to all exams (no cell phone calculators or PDAs).

Grading
The final course grade will be based on:
Homework ................................................... 25%
Test 1 (Tentatively Friday Sept. 21) ........................ 20%
Test 2 (Tentatively Friday Nov. 2) .......................... 20%
Final Exam (Tuesday Dec. 11th) ......................... 35%
Academic Misconduct
Please help maintain an academic environment of mutual respect and fair treatment. You are expected to produce original and independent work on the exams. Although students are often encouraged to work together on homework assignments, all students must submit their own work in their own words. It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). Academic misconduct will not be tolerated and will be dealt with procedurally in accordance with university policy, which can be found at http://oaa.osu.edu/coam.html. The Code of Student Conduct is available at http://studentaffairs.osu.edu/csc/.

Communication Devices
Cell phones, PDAs and other communication devices must be either turned off or put on vibrate during class. Please refrain from texting during class as a courtesy to those sitting around you. All electronic devices other than a calculator must be shut off and put away during examinations.

Addressing Issues of Differing Abilities
All students who feel they may need accommodations based on the impact of a disability should contact the instructor privately to discuss their specific needs. Students with documented disabilities must also contact the Office of Disability Services (ODS) in 150 Pomerene Hall (phone: 292-3307) to coordinate reasonable accommodations for the course. ODS forms must be given to the instructor as early in the quarter as possible.

Drop Date
The last day to drop the course without a ‘W' appearing on your record is Friday, September 14.

Receiving an 'I' for the Course
You cannot receive an incomplete for the course unless 65% of the work in the course has been completed. Extenuating circumstances will be handled on a case-by-case basis.