Statistics 420: Introduction to Mathematical Statistics I

Winter Quarter 2010

Instructor
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Teaching Assistants
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Course Description
This course covers basic concepts in mathematical statistics, including probability, discrete and continuous distributions and densities, mathematical expectation, functions of random variables, transformation techniques, sampling distributions, and order statistics.

Prerequisites
Math 254 or permission of instructor. Not open to students with credit for 520, 610, or 620.

Website http://www.stat.osu.edu/∼calder/stat420-wi10/
The class schedule, important announcements, lecture notes, homework problems and solutions, and other information about the course will be posted on Carmen (http://www.carmen.osu.edu).

Lectures MWF 11:30am-12:48pm in 0264 Macquigg Lab
Lecture notes will be posted on Carmen before class. Please read the sections of the textbook that will be covered, and print out a copy of the lecture notes before each class. There may be parts of the notes that you should fill in during lecture, and you may need to take separate notes on examples that are not in the lecture notes. Unless instructed otherwise, you are responsible for all of the material in the sections of the book that are covered in lecture even if some of the material in the book section is not covered in class. If you are unsure if you are responsible for a particular topic, be sure to ask the instructor.

Recitations
1) Th 10:30am-11:18am in 0220 Caldwell Lab (Sun)
2) Th 10:30am-11:18am in 053 McPherson Lab (Wang)
3) Th 11:30am-12:18pm in 0180 Baker Systems (Sun)

Recitations are an important component of this course. The TAs will provide additional examples of concepts introduced during lecture and will answer questions about the homework assignments.

The TAs will sometimes go over material that is not covered in lecture. Please only attend the recitation in which you are enrolled.

Required Textbook
Miller, I. and Miller M. *John E. Freunds Mathematical Statistics with Applications, Seventh Edition*. Pearson Prentice Hall, 2004.

Exams
There will be two in-class midterms (tentatively) given on Friday, Jan. 29th and on Friday, Feb. 26. Re-grade requests on the midterm exam must be submitted to the instructor in writing within one week of the day the midterms are handed back. The final exam will be held on Monday, March 15th from 11:30am-1:18pm.

Homework Assignments
There will be seven homework assignments for the course. You are encouraged to work together on the problems, but each student must hand in his or her own work. DO NOT COPY any part of another student's homework.

Homework must be turned in class or no later than 5pm in the instructor's mailbox (404 Cockins Hall) the day it is due. NO LATE HOMEWORK WILL BE ACCEPTED. The lowest homework score will be dropped in calculating the final grade. Solutions to the homework problems will be posted on Carmen. Re-grade requests on the homework problems must be submitted in writing to the course grader within one week of the day the solutions are posted.

Grading
The following is a breakdown of your final course grade:

Midterm Exam I 20% Midterm Exam II 20% Final Exam 30% Homework 30%

Grades on the exams may be curved if necessary.

Special Accommodations
If you need any accommodations based on the impact of a documented disability contact the instructor privately to discuss your specific needs. You should also contact the Office of Disability Services to coordinate special accommodations.

Academic Misconduct
Academic misconduct will not be tolerated and will be dealt with procedurally in accordance with university policy.