Math 152, Fall 2012
Statistical Theory
TuTh 1:15, ML 208
Jo Hardin

Instructor:
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office hours: M 1-3:30, W 9:30-11:30, or by appointment

Text: *Probability and Statistics*, by DeGroot and Schervish

Exams: We will have two midterm exams (Thursday, October 18th and Tuesday, November 20th) and a final exam (Monday, December 17th, 2pm).

Prerequisites: The prerequisites for this class are Probability (Math 151 or equivalent) and completion of the sequence of calculus and linear algebra. We rely heavily on these prerequisites, and students with no background in probability or multivariable calculus will find themselves trying to catch up throughout the semester. You should be familiar with topics such as conditional probabilities and expectations, the Central Limit Theorem, moment generating functions, and probability density functions.

Description: This is an introduction to mathematical statistics for students with a calculus and probability background. Though the course will be focused on the theoretical aspects of the material, there will be some real world examples in class and in the homework assignments. The idea is to have a strong mathematical understanding of the concepts while also understanding how the concepts are used in the real world.

Homework Homework will be assigned from the text on a weekly basis. No late homework is accepted, but one homework grade will be dropped.

Participation: The participation grade is based on willingness to participate in class discussions and other activities. We will have in class problems/ worksheets/labs that will be graded based on participation only. We will also have daily warm-up problems that will be graded and counted toward your participation grade.

Grading:
25% Homework
40% Two midterm exams
25% Final Exam (Cumulative)
10% Class Participation

Success: Success in this class will come with keeping up with the material. Please feel free to stop by, email, or call if you have any questions about or difficulty with the material, the homework, or the course. Come see me as soon as possible if you find yourself struggling. The material will build on itself, so it will be much easier to catch up if the concepts get clarified earlier rather than later. If you have a documented disability and wish to discuss academic accommodations, please contact me as soon as possible.

Academic Honesty: Pomona College is an academic community, all of whose members are expected to abide by ethical standards both in their conduct and in their exercise of responsibilities toward other members of the community. The college expects students to understand and adhere to basic standards of honesty and academic integrity. These standards include, but are not limited to, the following:

1. In projects and assignments prepared independently, students never represent the ideas or the language of others as their own.
2. Students do not destroy or alter either the work of other students or the educational resources and materials of the College.
3. Students neither give nor receive assistance in examinations.
4. Students do not take unfair advantage of fellow students by representing work completed for one course as original work for another or by deliberately disregarding course rules and regulations.
5. In laboratory or research projects involving the collection of data, students accurately report data observed and do not alter these data for any reason.