

STA 570
BASIC STATISTICAL ANALYSIS
Spring Semester, 2011
Tue and Thurs 12:30 PM–1:45 PM
Room CB316
<http://polytopes.net/courses/STA570S11/>

Instructor: Ruriko Yoshida
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Office hours: Tue Thurs 2:00-2:50 PM
Text: Alan Agresti and Barbara Finlay, *Statistical Methods for the Social Sciences*, 4th Edition,

Course Policies

Overview: Primarily in biological, behavioral and social sciences. Introduction to methods of analyzing data from experiments and surveys; the role of statistics in research, statistical concepts and models; probability and distribution functions; estimation; hypothesis testing; regression and correlation; analysis of single and multiple classification models; analysis of categorical data.

Prerequisites: MA 109 or equivalent. For graduate students; undergraduates must have consent of instructor.

Technology Needed:

1. Each student should have a calculator, especially for exams. The alternative is to do these calculations by hand which would take a great deal longer.
2. Access to computer.

Technology Not Allowed During Exams/Exercises/Lab Exercises:

Any technology that can receive/transmit information wirelessly cannot be used and should be turned off. Examples include: Cellphones, PDAs with wireless/Bluetooth/IR capabilities, laptops/tablet PCs.

Grading: The following scale will be used to determine grades:

A	B	C	D	E
90–100	80–89	70–79	60–69	0–59

That is, a student getting a course percentage of at least 90 will get no lower than an A, a student getting a course percentage of at least 80 and less than 90 will get no lower than a B, etc. The final grade for this course will be based on homework/lab exercises/attendance, two exams, and a cumulative final exam. Here is what each component is worth:

In-class quizzes	20%
Weekly Homework Assignment	30%
Midterm Exam on date March 3rd	20%
Final Exam on May 5th, 2011 at 1:00pm	30%

Exams: This course has a midterm and final exams. A midterm exam is scheduled for Thurs March 3rd. The cumulative final exam will be on May 5th, 2011 at 1:00pm. Make-up midterm exam will be allowed only in extreme circumstances and are subject to proper documentation. Unless it is an emergency situation, you need to notify me ahead of time either by phone or via email. It is the students' responsibility to check conflicts of exam dates (or any class activity) with religious holidays. If there is a conflict, you must notify the instructor in writing (email is fine) by the end of the second week of classes.

Homework: A weekly homework will be assigned on every Tuesday and will be collected on the next week in the lab.

Lab Exercises: Lab Exercises are typically based on the suggested homework and will be given during recitation. The emphasis will be on calculations and the use of formulas. Usually, the exercise will consist of 1 to 3 problems.

Attendance: Consistent attendance is strongly recommended and also part of the grade calculation (see above). Attendance will be taken during lecture. It will usually be recorded via a in-class quiz. The lowest quiz score will be dropped. Each student is responsible for obtaining all material missed when absent.

Syllabus: The syllabus will be followed closely, but it is subject to changes.

Cellphones: Cellphones need to be turned off during class time and exams.