STAT 190: Introduction to Statistics for Social Scientists

Spring 2001
Department of Statistics
Stanford University

Website: http://www.stanford.edu/class/stat190

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Office Hours: Shingchang Kou, MW 3:30 – 4:30
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Textbook: Introduction to the Practice of Statistics 3rd Ed. by Moore and McCabe
Excel Manual for Moore and McCabe’s IPS 3rd Ed. by Hoope
(optional) Study Guide for Moore and McCabe’s IPS 3rd Ed. by Notz and Fligner

Lectures: MTuW 2:15-3:30, 320-105.

Sections: Th 2:15-3:30, 320-105.

Topics

- Descriptive Statistics
- Correlation and Causation
- Experimental Design and Sampling Design
- Probability Theory
- Statistical Inference: Confidence Intervals and Significance Tests
- Linear Regression
- Analysis of Variance (if time allows)
**Prerequisites**
Elementary calculus and linear algebra (Math 41 or equivalent).

**Course Requirements and Grades**
The final grade will be based on four components:
- Homework (15%)
- Midterm 1 (25%), Midterm 2 (25%)
- Final (35%)

1. **Homework**
   Homework assignments are **not** optional; they are integral to an understanding of the material. **No late homework will be accepted.** However, considering some unforeseeable difficulties, the lowest score of the homework assignments will be dropped.

2. **Class Attendance**
   Because of the short duration of the course, students are expected to attend every class meeting. Although an absence would not affect the final grade, it will definitely affect the student’s progress. If a student misses more than **three** classes, he or she would be advised to drop the course.

3. **Midterms**
   There will be **two** in-class midterms on May 1st and May 14th. The midterms will be closed book excepting one page of notes (both sides). Bring your (fully charged) **calculator** to the midterms.
   **Remark. The exams cannot be taken at any time other than the regularly scheduled time.**

4. **Final Examination**
   There will be a closed book final examination. However students are allowed to bring up to four pages of notes (both sides). The final is scheduled on Wednesday June 13. Mark your calendar now, because it **will not be given at any other time.** The final will cover **material from the entire course.**
   **Remark. Neither makeup examination nor alternative examination will be given, unless we get a written letter from the office of Dean of Students (i) saying that we have to give you an alternative or makeup examination, and (ii) citing in the letter the proper university regulations governing the case.**

5. **Calculator**
   Every student must have a calculator with charged batteries during exams. They can be purchased for less than $30.00. **THE INSTRUCTOR AND TAS ARE NOT RESPONSIBLE FOR CALCULATORS IN ANY EXAM.**