

Syllabus

- Statistics 350B**      Statistical Methods II
- Prerequisites:**      Stat 350A or consent of instructor
- Course Web Page:**    <http://rohan.sdsu.edu/~jjfan/sta350b>
- Lectures:**            MW 2 - 3:15 pm, GMCS 325
- Instructor:**          Professor Juanjuan Fan  
Office: GMCS 519  
E-mail: [jjfan@sciences.sdsu.edu](mailto:jjfan@sciences.sdsu.edu)  
Office Hours: MW 9:30-10:20 am, GMCS 519
- Required Text:**      An Introduction to Statistical Methods and Data Analysis, 6th Ed.  
by RL Ott and M Longnecker

**Homework:** Homework will be assigned on the course web page each week on Monday or Wednesday and will be due one week following the assignment at the beginning of the lecture. You are encouraged to discuss homework problems with other students, but you should write up your solutions independently. You are welcome to ask me if you have questions.

Homework must be handed in by the beginning of lecture on the due date. **No late homework will be accepted.** If you can not be in class when an assignment is due, please be sure to leave it in my departmental mailbox or slide it under my door by the due time. But please note that homework can not be submitted via email. One homework grade will be dropped - this should be used to cover unforeseen emergencies.

**Exams:** There will be 2 midterm exams and one final exam. The midterms will be held in class on the following dates:

- Wednesday, February 23;
- Wednesday, April 6.

The final will be given on

- Wednesday, May 18, at 1 - 3 pm.

The exams will be closed book/notes and will be cumulative. NO makeup exams are given - no exceptions.

**Computing:** Most homework assignments will have problems that require the use of Minitab. **Computer output required for homework must be properly edited, labeled, and neatly presented.**

Minitab is installed in GMCS 422 and the library. As an SDSU student, you can download Minitab for free at <http://www-rohan.sdsu.edu/~download/minitab.html> (you will need your RedID for downloading). The minitab commands needed for homework assignments will be taught in class.

**Grading:** The grade for the class will be based on the following percentages:

- Homework: 15%
- Two midterms: 50% (25% each midterm)
- Final: 35%

#### Tentative Schedule

Week	Topic(s)	Reading from Text
1-3	Simple linear regression	Sections 11.1-11.4, 11.7
4-6	Multiple regression	Chapters 12-13
7	Linear regression: model diagnostics	Sections 11.5, 13.4
8-9	Analysis of Variance	(Chapter 8,) Section 14.2
10-12	RCB, Latin square & Factorial experiments	Chapters 14-15
13-15	Analysis of Covariance	Chapter 16