

Syllabus

- Statistics 350B** Statistical Methods II
- Prerequisites:** Stat 350A or consent of instructor
- Course Web Page:** <http://rohan.sdsu.edu/~jjfan/sta350b>
- Lectures:** TTh 9:30 - 10:45 am, EBA 260
- Instructor:** Professor Juanjuan Fan
Office: GMCS 519
E-mail: jjfan@sciences.sdsu.edu
Office Hours: T 1:00-1:50 pm, Th 11:00-11:50 am
- Required Text:** An Introduction to Statistical Methods and Data Analysis, 5th Ed.
by RL Ott and M Longnecker

Homework: Homework will be assigned on the course web page each Tuesday (or Thursday) and will be due the following Tuesday (or Thursday) 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 office 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 one midterm exam and one final exam. The midterm will be held in class on the following date:

- Thursday, March 11.

The final will be given on

- Tuesday, May 18 at 10:30am - 12:30pm.

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

Project: There will be a data analysis project. The objective is for you to practice the methods from this class in a real data setting and to learn to present the results of your statistical analysis in a written report. The project will be assigned at mid-semester.

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, GMCS 428, and the library. You can download a free copy using your Red ID (<http://www-rohan.sdsu.edu/~download/minitab.html>). The minitab commands needed for homework assignments will be taught in class and posted on the course web page.

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

- Homework: 15%
- Midterm: 30%
- Project: 15%
- Final: 40%

Note that any regrading request on homework or exams has to be made within one week after the paper is returned.

Information on furlough: Due to massive state budget cuts to the CSU, faculty and staff on each CSU campus are being “furloughed” (mandatory un-paid time off) two days per month. The department office will be closed for furlough on the following days: February 12, 26; March 29, 30; April 1, 2; May 14, 28.

- There will be no Stat 350B class on the following days due to furlough: January 28; February 16; March 4; April 29; May 11.

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
8-10	Analysis of Variance	Chapter 8
11-13	RCB, Latin square & Factorial experiments	Chapters 14-15
14-15	Analysis of Covariance	Chapter 16