

Statistics 151A - Linear Modeling: Theory and Applications

Instructor

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GSI

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Course Outline

Topics:

- Regression modeling
- Confidence Intervals and Hypothesis Testing
- Diagnostics
- Generalized Linear Models
- Selected topics

Textbook: Applied Regression Analysis and Generalized Linear Models, J. Fox (3rd Edition).

Prerequisites: STAT 135 and STAT 134 are required. Statistics 133 is recommended. Prerequisites for STAT 135.

Lab: Lab will mainly consist of practice problems, and of analyzing data in R. We assume familiarity with R.

Course work:

Homework

Homework due in 1-2 weeks once released. You will submit your assignments using Gradescope. Each homework contributes the same proportion to the final grade.

Exams

There will be two midterms. The first midterm will tentatively be on October 9, 2018, and the second on November 13, 2018.

Final Exam

There will be a final exam on December 13, 2018, at 11:30-2:30 pm.

Grading

Homework 20%, midterms (2) 40%, Final Exam (1) 40%.

Policies

Late Assignments

Late assignments will not be accepted except under special circumstances. Any accepted late assignments need of my approval and the grade might be penalized.

Email

I will not explain course material over email. If you have questions about the material please come to office hours with me or the GSI. Under special circumstances, if you have a time conflict with office hours, you can schedule an appointment at a different time.

Exams

There are no make-up exams. If you miss a midterm exam for an extreme emergency, you can have the final exam grade count for both the missed midterm and the final. That one exam will thus constitute a greater portion of your course grade. This extreme emergency must be approved by the instructor ideally before the exam date.

Attendance/Class participation

You are expected to attend all lectures, and to engage regularly in class discussions by asking and answering questions.

Academic Dishonesty:

It is encouraged that you discuss homework problems among peers, however each student is responsible for writing his/her own solutions. It is considered cheating if you use material from the internet or from previous year without proper acknowledgment. Students found of cheating on homework, exams, or any assignment, will be given a zero grade in the respective assignment and will be referred The Center for Student Conduct.

Disability

If you need accommodations for any physical, psychological, or learning disability, please speak to me to make the appropriate accommodations with the Disabled Students' Program.