

**SDS 384 Regression Analysis**  
**FAC 101B • MW 1:00-2:30 • Fall 2018**

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Professor:

Matt Hersh

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Office Hours: T 2:30-3:30

Teaching Assistant:

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O hours: M 10:00-11:00

**Textbooks:**

**Optional:**

Kutner, Nachtsheim, and Neter, **Applied Linear Regression Models**, 4<sup>th</sup> Edition.

Kutner, Nachtsheim, Neter, and Li, **Applied Linear Statistical Models**, 5<sup>th</sup> Edition.

Alan Agresti and Barbara Finlay, **Statistical Methods for the Social Sciences**, 4<sup>th</sup> Edition.

There is review material based on Statistical Methods for the Social Sciences posted to Canvas. We will use the Applied Linear Regression Models textbook. The Applied Linear Statistical Models textbook contains the exact same material, page numbers and all, as the Applied Linear Regression Models textbook. It also contains the material that will be used for the ANOVA class in the spring.

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**Course Description:** Simple and multiple linear regression, inference in regression, prediction of new observations, diagnostics and remedial measures, transformations, model building. Emphasis will be on both understanding the theory and applying theory to analyze real data.

**Software:** We will be using the software package SAS. SAS is available in many computer labs on campus. In addition, you may also pay a minimal fee to access SAS from your home or office on the SSC application server. For more information, see:  
[https://stat.utexas.edu/consulting/stat-apps-server?mobile=false\\_desktop](https://stat.utexas.edu/consulting/stat-apps-server?mobile=false_desktop)

**Grading:**

In-Class Labs	15%
Homework	25%
Exam 1	30%
Exam 2	30%

**In-class Labs:** Throughout the semester, we will have in-class labs. These will be problem sets to be worked on during class. They will count for 15% of your grade.

**Canvass:** Announcements, problem sets, and handouts will be posted on the SDS 384 site (<http://courses.utexas.edu>).

**Homework:** There will be problem sets assigned throughout the semester. The homeworks count for 25% of your grade.

**Exams:**

There will be 2 exams. They each will count for 30% of your grade. They are tentatively scheduled for Wednesday October 24<sup>th</sup> and Monday December 10<sup>th</sup>. These dates are subject to change. You may use calculators but absolutely no cell phones are allowed during the exams.

**\*Note the third exam is scheduled for December 10<sup>th</sup>, the last day of class.**

**Attendance:**

A student who misses classes or other required activities, including examinations, for the observance of a **religious holy day** should inform the instructor as far in advance of the absence as possible, so that arrangements can be made to complete an assignment within a reasonable time after the absence.

**Academic honesty:** We expect students to behave with integrity. Students found cheating on exams or homework will receive a score of zero for that exam or assignment, and may be subject to additional disciplinary action. For more information on the University of Texas scholastic dishonesty policy, see the 2006-2007 General Information Catalog, Appendix C.

**Students with Disabilities:** Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259, <http://www.utexas.edu/diversity/ddce/ssd/>

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