

EPPS 6316: Applied Regression, Spring 2026
 Wednesday 7:00 PM – 9:45 PM, GR 3.402A/B

Contact Information

Instructor: Andrew Krajewski, PhD	Teaching Assistant: Wenyi (May) Wang
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Office Hours: Wednesday 3:00pm to 5:00pm or by appointment.	Office Hours: Monday and Thursday 1:00 pm to 2:00 pm or by appointment (preferred)

Course and Student Learning Objectives

This course provides a survey of the bivariate and multiple regression models estimated using Ordinary Least Squares (OLS), with an emphasis on using regression models to test social and economic hypotheses. This application-focused course presents examples drawn from economics, political science, public policy and sociology, introduces the basic concepts and interpretation of regression models, and basic methods of inference. Topics are supported by computer-supported data analyses.

Required Books and Materials

All required materials will be available on eLearning or accessible via UT Dallas' Library, Google Scholar, or some other online source. We will primarily use:

- **K:** [Introductory Econometrics: Description, Prediction, and Causality by Kaplan](#)
- **HAGS:** [Introduction to Econometrics with R by Hanck, Arnold, Gerber, and Schmelzer](#)
- **LF:** Long, J. S., & Freese, J. (2006). *Regression models for categorical dependent variables using Stata* (Vol. 7).

Students wanting further assistance should refer to UCLA's Free Guides (<https://stats.oarc.ucla.edu/stata/>).

Course Assignments and Grading Policies

In-Class Exercises (10%): There will be occasional in-class exercises to help build and assess your understanding of the material. There will be five exercises in total, but only your four highest grades will count toward your final grade.

Weekly Homework (40%): You will be assigned homework weekly. The homework will include both conceptual and applied questions. You should submit your homework on eLearning by 10:00 AM the day the assignment is due. There will be (at least) eleven homework assignments, but only your ten highest homework grades will count toward your final grade. After you receive your homework grade, you may complete a short make-up assignment to earn back up to half of the points you missed.

Exams (50%): There will be two take-home exams. The exams will include material based on the course lectures, homework assignments, and assigned readings.

Grading Policies:

		B+	87–89%		C+	77–79%		D+	67–69%
A	94–100%	B	84–86%		C	74–76%		D	60–66%
A–	90–93%	B–	80–83%		C–	70–73%		F	0–59%

Extraordinary Circumstances: Because you are given ample time to complete homework assignments and exams, late work will not be accepted except for in particularly extraordinary circumstances. You will be given the opportunity to make up the in-class exercises *if* you have proper documentation about an illness, injury, or family emergency. In such circumstances, you should contact Dr. Krajewski (andrew.krajewski@utdallas.edu) as soon as possible.

Other Comments

Computer Software: The examples and exercises presented during the semester will be based in [Stata](#). Students may buy a 6-month license for [\\$48](#). When possible, Dr. Krajewski will also provide the materials in R.

Emails: I try my best to respond to emails within 48 hours. If I do not respond to your email, please send me a reminder or say something during class.

Working Together: You are encouraged to work together on the homework assignments. Students must complete and submit their own homework assignments. You are not allowed to work together on exams.

Classroom Etiquette: The use of laptops, tablets, cellphones, and other technologies is distracting. Please use your devices respectfully. If it becomes a problem, I will require you to put them away. Everyone should be respectful to one another.

Student Code of Conduct

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrates a high standard of individual honor in his or her scholastic work. See <https://conduct.utdallas.edu/integrity> and <https://conduct.utdallas.edu/dishonesty>.

Do not use artificial intelligence or related resources to produce (or assist in the production of) work for this course.

Accessibility Accommodations

The University of Texas at Dallas is committed to providing reasonable accommodations for all persons with disabilities. The syllabus is available in alternate formats upon request. If you are seeking classroom accommodations under the Americans with Disabilities Act (2008), you are required to register with the [AccessAbility Resource Center \(ARC\)](#), located in the Administration Building, Suite 2.224. Their phone number is 972-883-2098, email: studentaccess@utdallas.edu and the website is <https://accessability.utdallas.edu/>. To receive academic accommodations for this class, please [register and request services](#) by completing the Request for Services form with the proper documentation and meet with the Director of ARC at the beginning of the semester.

Counseling and Psychology Services

The [Student Counseling Center](#) offers confidential services to students either for individual appointments or as part of groups. Initial appointments must be made in person in the Student Counseling Center, which is located in SSB 4.600, on the fourth floor of the Student Services Building. Their main number is 972-883-2575 and the 24/7 Crisis Hotline is 972-883-8255 (972-UTD-TALK).

Course Calendar

Date	Topic	Assigned Reading	Assignments Due
Jan. 21	Course introduction		
Jan. 28	Research objectives, types of distributions, and descriptive statistics	K: Introduction and Chapter 2	HW1
Feb. 4	Hypothesis testing and confidence intervals	HAGS: Chapter 2 and 3	HW2
Feb. 11	Linear model and ordinary least squares (OLS) (Part 1)	HAGS: Chapter 4 and 5	HW3
Feb. 18	Linear model and ordinary least squares (OLS) (Part 2)	HAGS: Chapter 6 and 7	HW4
Feb. 25	Regression assumptions and diagnostics	HAGS: Chapters 4 through 7	HW5
Mar. 4	Statistical interactions and nonlinear effects	HAGS: Chapter 8 and Brambor, Clark, and Golder (2006)	HW6
Mar. 11	Catch-up day and additional practice	HAGS: Chapter 9	HW7
Mar. 18	Spring Break – No Class		
Mar. 25	Binary data	LF: Chapter 4	Exam 1 @ 10 AM
Apr. 1	Ordered categorical data	LF: Chapter 5	HW8
Apr. 8	Unordered categorical data	LF: Chapter 6	HW9
Apr. 15	Count data	LF: Chapter 7	HW10
Apr. 22	Catch-up and other topics (e.g., missing data)	TBD	HW11
Apr. 29	Additional other topics (e.g., reproducible workflows)	Wilson et al. (2017)	
May. 6	Time in the computer lab		
May. 8			Exam 2 @ 10 AM

* Supplemental reading

The information in this syllabus may change at the discretion of the professor.