

ECON 482: Econometric Theory and Practice (Summer 2025)

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Lecture: Monday/Wednesday 8:30-10:40 am Online

Office Hours: Monday 10:40am-11:50 am or by appointment

Class Webpage: Course materials will be posted on Canvas.

Questions should mostly go to lecture time or office hours. Otherwise, emails will be responded to within two business days. No questions will be answered within 24 hours before the exams.

Textbook:

Required Text: **Wooldridge, Jeffrey M., *Introductory Econometrics: A Modern Approach*, 7th edition.** The 6th edition or the 5th edition is acceptable. Check with classmates to make sure that you are doing the right problem set questions if you use some other editions.

Course Overview:

This course aims to help students understand how to interpret economic data. It will focus on the issues that arise in using this type of data, and the methodology for solving these problems. The focus of the course is on regression analysis.

Specific topics and extensions will include multivariate regression, dummy variables (including limited dependent variables), heteroskedasticity, and endogeneity. Problem sets will provide practical experience in addressing some of these issues using actual economic data. I will follow the textbook closely.

Tentative Topics to Be Covered:

1. Introduction to simple regression (Chapter 2)
2. Multivariate Regression: Estimation and Inference (Chapter 3-5)
3. Multivariate Regression: Further Issues (Chapter 6)
4. Binary or Dummy Variables (Chapter 7)
5. Heteroskedasticity (Chapter 8)
6. Endogeneity and Instrumental Variables (Chapter 15)

Requirements:

1. 6 Problem sets (20%) Lowest one dropped
2. Two exams (40% each)

Softwares:

1. You can buy Stata here (<https://itconnect.uw.edu/wares/uware/>) [Links to an external site.](#) You can buy "Stata/IC" (the cheapest version.) Of course you can buy more expensive version but not necessary for this course.
2. If you are familiar with 'remote access', there is a way to use Stata free of charge. Go to this link (https://csde.washington.edu/computing/resources/#TS_Connecting) [Links to an external site.](#) and follow the instructions under "Remote Access Windows

Computing (Terminal Servers)" carefully for setting up the remote desktop. If it doesn't work for you, you may have to use the first option (buying the Stata program)

A good reference is:

<https://data.princeton.edu/stata/>

3. **R** (r-project.org) and **RStudio** (rstudio.com) are available for free and will be used throughout the course. R Markdown is recommended. A good reference is:

Heiss, Florian, Using R for Introductory Econometrics, 2nd edition. It can be read online for free here:

<http://www.urfie.net/>

Key Dates

1. Problem sets are **due before class time of the due date**. NO late problem sets are accepted.
2. The two exams are scheduled tentatively on **July 21** (Monday) and **August 13** (Wednesday).
3. Students are responsible for announcements made via Canvas and emails.
4. As a general rule, I do not give make-up exams. However, if there are exceptional circumstances that make it impossible for you to take an exam at the scheduled time you should contact me at least **five days BEFORE** the exam.

Academic Integrity

You are expected to complete your own work for every assignment and exam. Looking at a neighbor's exam is considered cheating. If a student is seen committing this act, they will not be allowed to continue taking their exam. The neighbor sitting next to the student will also be duly punished if they are seen as facilitating this act of cheating. Altering an exam before submitting it for a review of the grading, obtaining an advance copy of an examination, or arranging for a surrogate test-taker are all flagrant violations of the university policy. Cheating of any kind may result in expulsion from the University. The Department of Economics will follow the university policy in case of academic misconduct. Students found to have engaged in academic dishonesty will be subject to sanctions, which range from a disciplinary warning to permanent expulsion from the university, depending on the seriousness of the misconduct.

Use of Plagiarism Detection Software

The University of Washington has a license agreement with SimCheck, an educational tool that helps prevent or identify plagiarism from Internet resources. Your instructor may use the service in this class by requiring that assignments are submitted electronically to be checked by SimCheck. The SimCheck Report will indicate the amount of original text in your work and whether all material that you quoted, paraphrased, summarized, or used from another source is appropriately referenced.

DRS Accommodations

It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law. If you have already established accommodations with Disability Resources for Students (DRS), please activate your accommodations via myDRS so we can discuss how they will be implemented in this course. If you have not yet established services through DRS but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), contact DRS directly to set up an Access Plan. DRS facilitates the interactive process that establishes reasonable accommodations. Contact DRS at <http://disability.uw.edu>

Religious Accommodations

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at Religious Accommodations Policy (<https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>). Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form (<https://registrar.washington.edu/students/religious-accommodations-request/>).

COVID-19 Information

CDC Guideline for Quarantine and Isolation: (<https://www.cdc.gov/coronavirus/2019-ncov/your-health/quarantine-isolation.html>)

UW Face Covering Policy: <https://www.ehs.washington.edu/covid-19-prevention-and-response/face-covering-requirements>

UW Quarantine and Isolation Guidance: <https://ehs.washington.edu/covid-19-prevention-and-response/quarantine-and-isolation-guidance>

