

ECON 3112-001: ECONOMETRICS

Fall 2026

Class Meetings	Mondays and Wednesdays, 2:30–3:45 p.m.
Room	Friday 132
Instructor	Kingsford Onyina
Email	konyina@charlotte.edu
Office	Denny 115
Office Hours	Mondays and Wednesdays, 1:00–2:00 p.m., and by appointment

Textbook

Wooldridge, Jeffrey M. 2020. *Introductory Econometrics: A Modern Approach*, 7th Edition. Mason, OH: South-Western Cengage Learning. **(Required)**

Earlier editions of the textbook are also acceptable, although chapter numbering and exercises may differ.

Course Description and Objectives

This course introduces students to econometrics, the use of statistical methods and data to examine questions in economics, business, and the broader social sciences. The course emphasizes the practical and intuitive application of foundational econometric methods and is designed to make econometric concepts and terminology more approachable through guided practice and real-world examples. Students will learn to identify different types of data, estimate and interpret simple and multiple regression models, conduct hypothesis tests, and evaluate the assumptions and limitations of empirical analysis. Using Stata, students will develop the skills to analyze data, communicate results clearly, critically assess quantitative evidence, and use econometric findings to support informed research and decision-making.

Prerequisites

Students must have completed the following courses with grades of C or above: ECON 2101 or ECON 1201; ECON 2102 or ECON 1202; MATH 1120, MATH 1241, or MATH 1242; STAT 1220, STAT 1221, or STAT 1222; and INFO 2130.

Software

We will use Stata to conduct statistical analyses in this course. Stata is available through UNC Charlotte's Apporto virtual desktop, and access instructions will be provided. It is also available on university-owned computers with the appropriate software access. Students who wish to install Stata on a personal computer may purchase a discounted student edition through the Stata student-pricing website. Stata/BE will be sufficient for this course.

<http://www.stata.com/order/new/edu/gradplans/student-pricing/>

Grading

There will be **11 quizzes, 6 problem sets, regular class participation activities, and 4 exams. Your lowest quiz score, lowest problem set score, lowest exam score, and lowest three participation scores will be dropped.** These policies are intended to provide flexibility for an occasional absence, missed deadline, poor performance, emergency, or technical difficulty.

Problem sets are designed to deepen your understanding of the course material and prepare you for quizzes and exams. They will be graded primarily on effort using a 1–5 scale. Solutions will be posted with each problem set so that you can work through the questions, check your answers, and correct misunderstandings as you go.

Class participation will be assessed primarily through brief in-class polls and learning activities. These activities will be graded mainly for completion and engagement rather than correctness.

Final course grades will be based on quizzes, problem sets, class participation, and exams after the applicable lowest scores have been dropped, using the weights listed below.

Component	Weight	Letter	Range
Quizzes	15%	A	90–100%
Problem Sets	10%	B	80–89%
Class Participation	10%	C	70–79%
Exams	65%	D	60–69%
		F	Below 60%

Course Outline (Tentative)

The material we will cover in the text includes at least some parts of the following chapters.

- Appendices A, B, C – Review of Basic Math, Statistics, and Probability
- Chapter 1 – The Nature of Econometrics and Economic Data
- Chapter 2 – The Simple Regression Model
- Chapter 3 – Multiple Regression Analysis: Estimation
- Chapter 4 – Multiple Regression Analysis: Inference
- Chapter 5 – Multiple Regression Analysis: OLS Asymptotics
- Chapter 6 – Multiple Regression Analysis: Further Issues
- Chapter 7 – Multiple Regression with Qualitative Information: Binary (Dummy) Variables
- Chapter 8 – Heteroskedasticity
- Chapter 9 – Specification and Data Problems
- Chapters 10, 11, 12 – Time Series

Course Policies

Exam Policy

Regularly scheduled makeup exams will not be offered. Students are expected to attend all exams at the scheduled time. An unexcused absence will result in a zero, which may serve as the dropped exam score. Students who must miss an exam because of university-authorized travel, religious observance, a documented serious illness, family emergency, or another approved circumstance should notify me in advance whenever possible or as soon as reasonably able. Approved absences may be addressed through a makeup exam or alternative grade weighting. Multiple excused absences will be considered individually and remain subject to the instructor's discretion.

Screen Policy

To minimize distractions, phones should remain put away during class except when I ask you to use them for polls or other class activities. Laptops and tablets may be used only for note-taking or accessing course materials. Please keep screens focused on class content; unrelated browsing, messaging, or other activities are not permitted. I may ask devices to be put away when they are not needed.

Re-grading

If you would like your problem set or exam re-graded, you must submit a re-grade request in writing within 1 week from when the assignment is graded. Your request must clearly note where and why you think you deserve additional points. Please note that your entire problem set or exam will be re-graded, so your final score may go up or down.

Late Work

Late work will receive a zero unless an extension or accommodation has been approved in advance. The lowest quiz and problem set scores will be dropped.

Communication

Email me directly if you have a personal question or would like to set up a one-on-one meeting. For all individual emails related to the course, please use "ECON 3112" as the subject line. Please use appropriate email etiquette in all communication, for example, include a salutation, sign your name, and avoid abbreviations. I will generally respond within 24 hours to emails sent during the Monday–Friday workweek, although there may be occasional exceptions. Messages sent on weekends, holidays, or during university closures may receive a response on the next business day.

Artificial Intelligence

AI tools, including ChatGPT, Claude, Gemini, and Microsoft Copilot, may be used to clarify concepts, explain Stata error messages, and debug code you have written. AI may not be used to produce final answers, complete graded assignments, write Stata code for submission, or interpret regression results on your behalf. AI is prohibited on quizzes and exams. You are responsible for understanding and verifying any AI-assisted guidance you use. When in doubt, ask.

Extra Credit

There will be no formal extra-credit opportunities in this course. You are therefore encouraged to put your best effort into every assignment, quiz, participation activity, and exam. If you begin experiencing difficulty, please contact me early rather than waiting until the end of the semester.

That said, anyone who makes it this far deserves a small reward for actually reading the syllabus. Email me a picture of an elephant by August 19 at 11:59 p.m. to earn one bonus participation point.

Additional University Policies and Resources

Accessibility and Accommodations

UNC Charlotte is committed to access to education. If you have a disability and need academic accommodations, please provide a letter of accommodation from Disability Services early in the semester. For more information on accommodations, contact the Office of Accessibility and Accommodation at 704-687-0040 or visit their office in Fretwell 230. I am not able to provide accommodations without verification from DS.

Academic Integrity

All students are required to read and abide by the UNC Charlotte Code of Student Academic Integrity available online at <http://legal.uncc.edu/policies/up-407>. Violations of the Code, including plagiarism, will result in disciplinary action.

Diversity

The Belk College of Business strives to create an inclusive academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to, ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

Counseling Services

The Christine F. Price Center for Counseling and Psychological Services provides confidential counseling, crisis support, and group services to eligible UNC Charlotte students at no additional cost. For more information or to schedule an appointment, visit the CAPS website or call 704-687-0311. After-hours counselor support is also available through this number.

Sexual and Interpersonal Misconduct.

UNC Charlotte is committed to maintaining a campus free from discrimination, sexual harassment, sexual assault, domestic violence, dating violence, and stalking. If you or someone you know has experienced any of these, support is available.

As a faculty member, I am required to report disclosures of sexual or interpersonal misconduct to the Office of Civil Rights and Title IX. Reporting does not automatically require you to file a formal complaint, and you will still have options regarding how the matter is handled.

Confidential resources:

- Counseling and Psychological Services: Christine F. Price Center, 704-687-0311
- Waddell Center for Student Health and Wellbeing: 704-687-7400, studenthealth.charlotte.edu
- University Ombuds: Denny 218, 704-687-5518, ombuds@charlotte.edu

For immediate or crisis assistance after hours, please call 911 or Campus Police at 704-687-2200. Additional information and resources are available through the Office of Civil Rights and Title IX website.