Syllabus - Winter Session 2026 (12/29/2025-1/16/2026)

Excluding materials for purchase, syllabus information may be subject to change. The most up-to-date syllabus is located within the course in HuskyCT.

Course and Instructor Information

Course Title: Econometrics I
Credits: 3
Format: Fully Online

Professor: Min Seong Kim
Email: min_seong.kim@uconn.edu (preferred method of contact)
Office Hours

- We can meet over webex (link: https://uconn-cmr.webex.com/join/msk17004). Please email me in advance to schedule the time.
- I will also respond to questions via email within 24 hours. Weekend response time might be slower.

Course Materials

Textbook

Hanck, Arnold, Gerber and Schmelzer, *Introduction to Econometrics with R*

- Online free material: https://www.econometrics-with-r.org/

Software

1. R: It is free! Base R and most R packages are available for download from the Comprehensive R Archive Network (CRAN, https://www.r-project.org/).
   - Download the R installer at https://www.r-project.org/.
   - Install R by opening the installer and follow the steps.
2. RStudio: It is free too! Make sure that you have already installed R.
   - Download the RStudio Desktop installer at http://www.rstudio.com/ide/download.
   - Install RStudio Desktop by opening the installer and following the steps.

Course Description

The goal of the course is to provide an introduction to econometrics. This course mainly covers the linear regression model, and its estimation and inference. We will distinguish between the correlation and causation, and study how to use econometric model to identify causal relationships. Students will learn and practice R programming, which is a standard software package to perform empirical analysis in economics.

Course Objectives

By the end of the semester, students should be able to:

1. Review basic statistics and probability that are necessary to study econometrics.
2. Define the linear regression model that describes a linear relationship between X and Y; the slope of the line relating X and Y is the effect of a one-unit change in X on Y.
3. Construct the ordinary least squares (OLS) estimator for the slope and intercept in the linear

regression model and introduce the assumptions to study the properties of this estimator.
4. For a given economic question, dataset, and regression model, judge statistical significance of the results.
5. Practice R programming which is a standard software package to perform the empirical analysis in econometrics.

Course Outline (See Course Calendar in Course for all Due Dates)

Module 1: Review of Probability and Statistics / Introduction to R programming, (Chapters 2-3)
Module 2: Linear Regression with One Regressor (Chapter 4)
Module 3: Hypothesis tests and Confidence Interval (Chapter 5)
Module 4: Linear Regression with Multiple Regressors (Chapter 6)
Module 5: Hypothesis Tests and Confidence Intervals in Multiple Regression (Chapter 7)

Course Requirements and Grading

Summary of Course Grading:

Course Components	Weight
Participation	30%
Quiz	20%
Midterm (January 7, 2026)	25%
Final (January 16, 2026)	25%

Participation
Participation is important! Students are expected to actively participate in discussion boards. For each module, you are required to share your opinion (at least one). You also have to complete Practice assignment after the course orientation.

Quiz
Each quiz typically includes 10 multiple questions. You have 5 quizzes, and your grade is based on the best three. Quizzes will make sure that you understand course materials.

Midterm
Midterm will cover Chapters 2-4.

Final
Final will cover Chapters 5-7.

The midterm and final exams will be held at noon for an hour, with students connected via Webex for remote proctoring.

Grading Scale:

Grade	Letter Grade	GPA
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
70-72	C-	1.7
67-69	D+	1.3
63-66	D	1.0
60-62	D-	0.7
<60	F	0.0

Final grades will be rounded accordingly (i.e., a 92.6 will be rounded to 93 and receive an A).

Due Dates and Late Policy

All course due dates are identified in the **Course Schedule**. Deadlines are based on Eastern Standard Time; if you are in a different time zone, please adjust your submittal times accordingly. *The instructor reserves the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.*

No late work will be accepted in this course. There are no makeup exams except for in extenuating circumstances. If you think you will miss an exam for any reason, please contact the instructor as soon as possible.

Feedback and Grades

I will make every effort to provide feedback and grades within 24-48 hours, with the exception of exams which may take longer to finish. To keep track of your performance in the course, refer to My Grades in HuskyCT.

Student Responsibilities and Resources

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. Review these important standards, policies and resources, which include:

- The Student Code
  - Academic Integrity
  - Resources on Avoiding Cheating and Plagiarism
- Copyrighted Materials
- Netiquette and Communication
- Adding or Dropping a Course
- Academic Calendar
- Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships
- Sexual Assault Reporting Policy

Students with Disabilities

The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.

Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government." (Retrieved March 24, 2013 from Blackboard's website)

Software/Technical Requirements (with Accessibility and Privacy Information)

The software/technical requirements for this course include:

- HuskyCT/Blackboard (HuskyCT/ Blackboard Accessibility Statement, HuskyCT/ Blackboard Privacy Policy)
- Adobe Acrobat Reader (Adobe Reader Accessibility Statement, Adobe Reader Privacy Policy)

- Microsoft Office (free to UConn students through uconn.onthehub.com) (Microsoft Accessibility Statement, Microsoft Privacy Statement)
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).

NOTE: This course has NOT been designed for use with mobile devices.

Help

Technical and Academic Help provides a guide to technical and academic assistance.

This course is completely facilitated online using the learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, you have access to the in person/live person support options available during regular business hours through the Help Center. You also have 24x7 Course Support including access to live chat, phone, and support documents.

Minimum Technical Skills

To be successful in this course, you will need the following technical skills:

- Use electronic mail with attachments.
- Save files in commonly used word processing program formats.
- Copy and paste text, graphics or hyperlinks.
- Work within two or more browser windows simultaneously.
- Open and access PDF files.

University students are expected to demonstrate competency in Computer Technology. Explore the Computer Technology Competencies page for more information..

Evaluation of the Course

Students will be provided an opportunity to evaluate instruction in this course using the University's standard procedures, which are administered by the Office of Institutional Research and Effectiveness (OIRE).

Additional informal formative surveys may also be administered within the course as an optional evaluation tool.