



ECO 317 Introduction to Econometrics

Fall 2023

Course Credits: 4

Contact Hours: 56 hours

Instructor: TBA

Email: TBA

COURSE OBJECTIVES

This course is an introduction to multiple regression methods for analyzing data in economics and related fields. Students learn how to conduct empirical studies, as well as how to analyze and interpret results from other empirical works. The topics include estimation, hypothesis testing, multiple linear regression, Gauss-Markov theorem, functional form specifications, dummy variables, and time series.

Upon Completion of this Course, students will be able to:

1. Understand the basic concepts and tools of econometrics;
2. Learn how to apply statistical methods to economic data;
3. Interpret and communicate the results of econometric analyses;
4. Understand how to test hypotheses and draw inferences from economic data;
5. Gain experience in using econometric software to analyze economic data.

PREREQUISITES

ECO 110 Microeconomics

ECO 209 Analysis of Economic Data

GRADING

Grades will be determined by accumulating points, with 100 points being the maximum, as follows:

ITEM	POINTS
2 Assignments	20 Points
2 Quizzes	20 Points
Midterm Exam	25 Points



Final Exam	35 Points
Total	100 Points

Late submissions will be graded at the end of the course. Grades will be assigned according to the following rule:

$$A \geq 90 > B \geq 80 > C \geq 70 > D \geq 60 > F.$$

We reserve the right to make adjustments to the overall grading policy.

COURSE MATERIALS

Required Texts:

Introduction to Econometrics, by James H. Stock, Mark W. Watson, Pearson Education Limited, 4th Ed.

Recommended (Optional) Texts or Other Materials:

None

COURSE TOPICS

MODULE	TASKS
Module 1	Topics: Topic 1: The Nature of Econometrics and Economic Data Topic 2: The Simple Regression Model Topic 3: Multiple Regression Analysis: Estimation Topic 4: Several Scenarios for Applying Multiple Regression Assessments: Assignment #1
Module 2	Topics: Topic 5: Multiple Regression Analysis: Inference Topic 6: Confidence Intervals Topic 7: Multiple Regression Analysis: OLS Asymptotics Topic 8: Multiple Regression Analysis: Further Issues Assessments: Quiz #1



Module 3	Topics: Topic 9: Multiple Regression Analysis with Qualitative Information Topic 10: Heteroskedasticity Topic 11: More on Specification and Data Issues Topic 12: Basic Regression Analysis with Time Series Data Assessments: Assignment #2 Midterm Exam
Module 4	Topics: Topic 13: Further Issues in Using OLS with Time Series Data Topic 14: Asymptotic Properties of OLS Topic 15: Serial Correlation and Heteroskedasticity in Time Series Topic 16: Pooling Cross Sections across Time: Simple Panel Data Methods Assessments: Quiz #2
Module 5	Topics: Topic 17: Advanced Panel Data Methods Topic 18: Instrumental Variables Estimation and Two-Stage Least Squares Topic 19: Simultaneous Equations Models Topic 20: Limited Dependent Variable Models and Sample Selection Corrections Assessments: Final Exam

ATTENDANCE

1) Class attendance is required. Missing classes without permission will lead to decrease in overall grade.

Missing less than two classes: no penalty.

Missing more than two classes: 7% will be taken off from the overall grade.

If the instructor reports a student's frequent missing of class to the Soochow University Academic Administration Office, the student might get a written warning and might be prohibited from attending final exam.

2) Participants in this course are expected to arrive in class promptly and adequately prepared. The primary objective of this course is to critically engage with the readings and the subject matter. Therefore, course participants are expected to have completed the reading prior to class and prepare thoughtful reflections/commentaries to share



with fellow colleagues.

LEARNING REQUIREMENTS

- 1) Late assignments are not acceptable and are subjected to grade deductions.
- 2) Assignments submitted in the wrong format will be counted as not submitted.
- 3) Failure to submit or fulfill any required course component results in failure of the class.
- 4) Make-up for midterm and final exams only with valid excuses, as defined by the University.
- 5) In order to earn a Certificate of Completion, participants must thoughtfully complete all assignments by stated deadlines and earn an average quiz score of 50% or greater.

TECHNOLOGY POLICY

The use of electronic devices in class is distracting, both for the user and for the rest of the class. Only non-programmable calculators can be used in the tests and exam. Any attempts to use cell phones and other electronic communication devices will be seemed as cheating. Laptops are discouraged, unless you use them for activities DIRECTLY related to the course (eg., note taking, reading course documents).

ACADEMIC INTEGRITY POLICY

Soochow University highly values the academic integrity and aims to promote the academic fairness, honesty and responsibility. Any academic dishonesty behaviors and any attempts to cheats and plagiarism will be reported to the university administration office. A written warning and the relevant penalties will be imposed. The record might be shown on the official university transcript.

DISABILITY ACCOMMODATION

Soochow University is committed to maintaining a barrier-free environment so that students with disabilities can fully access programs, courses, services, and activities at Soochow University. Students with disabilities who require accommodations for access to and/or participation in this course are welcome.



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Note:

Please contact the University Administrative Office immediately if you have a learning disability, a medical issue, or any other type of problem that prevents professors from seeing you have learned the course material.