

Research Methodology/ECON Module 1, 2025

Course Information

Instructor: C.S. CHU

Office: PHBS Building, Room 732 Phone: 86-755-2603-2933 Email: cchu@phbs.pku.edu.cn Office Hour: Tue 10:30-12:00

Classes:

Lectures: Tue 13.30-15.20

Venue: Rm 319

Course Website:

1. Course Description

1.1 Context

Course overview: Learning methodology/applied econometrics for thesis research

philosophically.

Prerequisites: Econometrics I.

1.2 Textbooks and Reading Materials

In-class lecture notes and slides

2. Learning Outcomes

2.1 Intended Learning Outcomes

Learning Goals	Objectives	Assessment (YES with details or NO)
1. Our graduates will be effective	1.1. Our students will produce quality business and research-oriented documents.	Yes
communicators.	1.2. Students are able to professionally present their ideas and also logically explain and defend their argument.	Yes
2. Our graduates will be skilled in team work and leadership.	2.1. Students will be able to lead and participate in group for projects, discussion, and presentation.	NA
·	2.2. Students will be able to apply leadership theories and related skills.	NA
3. Our graduates will be	3.1. In a case setting, students will use	NA

trained in ethics.	appropriate techniques to analyze business problems and identify the ethical aspects, provide a solution and defend it.	
	3.2. Our students will practice ethics in the duration of the program.	Yes
4. Our graduates will have a global perspective.	4.1. Students will have an international exposure.	NA
5. Our graduates will be skilled in problem-solving and critical thinking.	5.1. Our students will have a good understanding of fundamental theories in their fields.	Yes
	5.2. Our students will be prepared to face problems in various business settings and find solutions.	Yes
	5.3. Our students will demonstrate competency in critical thinking.	Yes

2.2 Course specific objectives

Understanding rigorous academic research and applied econometrics.

2.3 Assessment/Grading Details

Various assignments (60%) and Final Exam (40%)

2.4 Academic Honesty and Plagiarism

It is important for a student's effort and credit to be recognized through class assessment. Credits earned for a student work due to efforts done by others are clearly unfair. Deliberate dishonesty is considered academic misconducts, which include plagiarism; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; or altering, forging, or misusing a University academic record; or fabricating or falsifying of data, research procedures, or data analysis.

All assessments are subject to academic misconduct check. Misconduct check may include reproducing the assessment, providing a copy to another member of faculty, and/or communicate a copy of this assignment to the PHBS Discipline Committee. A suspected plagiarized document/assignment submitted to a plagiarism checking service may be kept in its database for future reference purpose.

Where violation is suspected, penalties will be implemented. The penalties for academic misconduct may include: deduction of honour points, a mark of zero on the assessment, a fail grade for the whole course, and reference of the matter to the Peking University Registrar.

For more information of plagiarism, please refer to PHBS Student Handbook.

3. Topics, Teaching and Assessment Schedule

Part I: Presentation and Slides

- (1) Preparing slides
- (2) Contents and Strategy

Part II Methodology of Positive Economics

- (1) Alternative theories/hypotheses
- (2) Prediction evaluation
- (3) Statistical hypothesis, the null hypothesis.

Part III Introduction to Robustness

- (1) Inferential robustness: Robust Estimation.
- (2) Model Robustness: Extreme Bond Analysis; Data Mining Bias; Perturbation.

Part IV Applied Econometrics step by step

Hausman, J., B. Hall and Z. Griliches (1984): "Econometric Models for Count Data with an Applicatio to Patents R&D Relationship." Econometrica 52:909-938.