



# Research Methodology/ECON Module 1, 2025

## Course Information

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**Instructor: C.S. CHU**

Office: PHBS Building, Room 732

Phone: 86-755-2603-2933

Email: cchu@phbs.pku.edu.cn

Office Hour: Tue 14:00-15:30 Wed: 13:00-14:00

**Classes:**

Lectures: Tue 15.30-17.20

Venue: Rm 319

**Course Website:**

## 1. Course Description

### 1.1 Context

Course overview: Learning methodology/applied econometrics for thesis research.

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 communicators.	1.1. Our students will produce quality business and research-oriented documents.	Yes
	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 trained in ethics.	3.1. In a case setting, students will use appropriate techniques to analyze business	NA

	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**

There will be 2-3 assignments, equally weighted.

## **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.

### Important Class Rules:

Your attendance has an impact on your final grade. This course consists of only nine meeting sessions. In the event that you miss three or more sessions for any reason, your final grade will be an F. If you miss two sessions, your grade will be adjusted downward at my discretion.