



北京大學  
汇丰商学院

Peking University HSBC Business School

# ECON532

## Applied Econometrics

### Module 3, 2017

#### Course Information

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**Instructor: Chia-Shang Chu**

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Office Hour: Mon & Thu 2:30-3:30

**Teaching Assistant: TBA**

Phone:

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**Classes:**

Lectures: Mon & THU: 10:30-12:20

Venue: PHBS Building, Room

## 1. Course Description

### 1.1 Context

Course overview: This introductory course focus on regression analysis and using the computer to learn important techniques and concepts in econometrics. Scheduled lab classes are required. It is an integrated part of learning in this course.

Prerequisites: Calculus and Statistics

### 1.2 Textbooks and Reading Materials

*Stock, James and Mark Watson: Introduction to Econometrics, 3<sup>rd</sup> ed.*

## 2. Learning Outcomes

### 2.1 Intended Learning Outcomes

Learning Goals	Objectives	Assessment
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	NA

	leadership theories and related skills.	
3. Our graduates will be trained in ethics.	3.1. In a case setting, students will use appropriate techniques to analyze business problems and identify the ethical aspects, provide a solution and defend it.	NA
	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**

Apply econometrics to engage in persuasive empirical study.

## **2.3 Assessment/Grading Details**

Midterm (Apr 3rd, 40%), Homework (20%) and a 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**

3.1 Review of Probability and Statistics (Chapter 2, 3).

3.2 Linear Regression with One regressor (Chapter 4 and 5)

3.3 Lab class (March 6)

3.4 Linear Regression with multiple regressors (Chapter 6,7).

3.5 Lab Class (March 20)

3.6 Nonlinear Regression Function(Chapter 8)

3.7 Lab Class (March 27)

3.8 Panel Regression (Chapter 10)

3.9 Time series Regression and Forecasting. (Chapter 14)

3.10 Lab class (Apr 20)

#### **4. Miscellaneous**

Skill in software EVIEW, STATA or Matlab is required.