

Econ 3121A Introductory Econometrics
2017 – 2018 Term 1
The Chinese University of Hong Kong

Instructor: Yan, Jin

Office hours: Monday 11:30am-12:30pm or by appointment

Office: 903 Esther Lee Building

Email: jyan@cuhk.edu.hk

Teaching Assistant:

Wang, Jingyi

Office hours: Wednesday 11:00am-12:00pm or by appointment

Office: 1017-23 Esther Lee Building

Email: wangjingyi@link.cuhk.edu.hk

Lectures: Tuesday 1:30pm-2:15pm, ELB_LT2 & Thursday 10:30am-12:15pm ELB_LT3

Course Webpage: Access through CUSIS

Tutorial Hours: TBA (optional, but highly encouraged)

Required Textbook: Introductory Econometrics: A Modern Approach, Wooldridge, Jeffrey M., Cengage Learning, 6th edition, 2016. The book is available at the University Bookstore, CUHK. I highly recommend every student to own the textbook.

(Other editions are acceptable but the reading list and homework assignments are based on the 6th edition. Check with classmates to make sure that you are reading the right chapters and doing the right problem set questions if you use other editions.)

Course Description and Objectives:

The purpose of this course is to provide an introduction to the statistical methods that economists use to test economic theory and interpret economic data. We begin with an extended discussion of simple and multiple regression analysis. More advanced topics will be tackled later in the semester, such as dummy variables, heteroscedasticity, instrumental variables, binary choice models, panel data and time series. Problem sets will provide students practical experience in applying econometric techniques to real world data.

Upon successful completion of this course, students should demonstrate their mastery of a broad knowledge of regression analysis relevant for analyzing economic data, theoretical background for the standard econometric methods used in empirical analysis, and skills of applying STATA in regression analyses of empirical data.

STATA:

The computer program STATA will be used extensively in the course. One good introduction can be found at <http://data.princeton.edu/stata/>. I will do some STATA demonstration in class. Your TAs will also help you during the tutorial hours. You will have a chance to learn basic knowledge of STATA in the computer lab (916) in ELB. Selected exercises will be given for you to obtain skills on the basic programming and interpretations.

Requirements:

1. 4 problem sets (20%). Each problem set will count 5% in your final grade. Problem sets will go out about every other week, and you will have 1-2 weeks to do them. You are required to bring your hard copy problem sets to the classroom and submit them before class time of the due date. **No late problem sets are accepted.** If you choose to hand in late, a 50% discount is applied for each day after the due date. The number of days is rounded upward, e.g. 1 day and 1 hour is rounded up to 2 days.
2. Midterm exam (30%).
3. Final exam (50%). Final examination will be **cumulative**, but will emphasize the materials after the midterm exam.
4. Class attendance/participation (5% bonus). You are required to come to class **on time**. We will randomly have few attendance checks. A random number of quizzes will also be given in class as participation checks.

Recording:

Audio and/or video recording of the class is prohibited.

Key Dates:

1. The **midterm exam** is scheduled at **class time (10:30am-12:15pm)** on **October 19 (Thursday)**. Arrive 10 minutes early.
2. The date of the **final exam** will not be known till late November as it is centrally scheduled by the University. **Early departure before the end of the exam period is NOT a valid reason for absence from the final exam.** Ensure that you are available on these exam dates, as exams will not be rescheduled for any student for any reason.
3. There is a **make-up class** scheduled on **November 14 (Tuesday) 6:30pm-8:30pm**.
4. Students are responsible for announcements made in class and via E-mail.

Honesty in Academic Work:

Please visit the following website for details of university policy on Honesty in Academic Work: <http://www.cuhk.edu.hk/policy/academichonesty/>.

Each assignment must be submitted together with a **signed declaration** of originality.

I declare that the assignment here submitted is original except for source material explicitly acknowledged, and that the same or closely related material has not been previously submitted for same or different courses. I also acknowledge that I am aware of University policy and regulations on honesty in academic work, and of the disciplinary guidelines and procedures applicable to breaches of such policy and regulations, as contained in the website <http://www.cuhk.edu.hk/policy/academichonesty/>.

Signature

Date

Name

Student ID

Course code

Course title

Course Schedule:

The course schedule is subject to changes as the semester proceeds. Students are responsible for keeping track of course materials at all times.

Week	Tuesday & Thursday	Topic	Reading Chapters
1	Sep 05 & Sep 07	Introduction and Statistics Review	1 & App A-B
2	Sep 12 & Sep 14	Simple Regression Model(I)	2.1-2.3
3	Sep 19 & Sep 21	Simple Regression Model(II)	2.4-2.6
4	Sep 26 & Sep 28	Multiple Regression Model(I)	3.1-3.6
5	Oct 03 & Oct 05	No Class on Oct 03 (Cancelled) No Class on Oct 05 (Public Holiday)	
6	Oct 10 & Oct 12	Multiple Regression Model(II)	4.1-4.6, App B.5
7	Oct 17 & Oct 19	Review & <u>Midterm Exam (Oct 19 in class)</u>	
8	Oct 24 & Oct 26	Asymptotics	5
9	Oct 31 & Nov 02	Dummy Variables	7.1-7.5, 7.7
10	Nov 07 & Nov 09	Binary Choice Model and Heteroskedasticity	17.1, 8.1-8.4
11	Nov 14 & Nov 16	Endogeneity No Class on Nov 16 (83rd Congregation)	9.1-9.2, 15.1-15.3
11	Nov 14 (Tuesday)	Simultaneous Equations (Make-up Class 6:30pm-8:30pm)	16.1-16.3
12	Nov 21 & Nov 23	Pooled Cross Sections and Panel Data	13, 14
13	Nov 28 & Nov 30	Time Series & Review	10.1-10.2, 10.5
	<u>TBA</u>	<u>Final Exam</u> (centrally scheduled by the University)	