

Econometrics I

Fall 2012

Instructor: Li Yu

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Office Hours: Tuesday 3:30-5:00pm, Friday 3:30-5:00pm or by appointment.

Course - Time and Location:

Tuesday: 10:10am -12:00pm / Friday 8:00am - 9:50am

Main building 509

Teaching assistant: Li Junfeng angeljunfeng@gmail.com

Textbook:

*J. M. Wooldridge. *Introductory Econometrics-A Modern Approach*. South-Western, College Publishing, 4th edition. Required.

*Some unpublished notes by Jeffery Wooldridge of Michigan State University. The notes are only for your own use and cannot be disseminated or reproduced in any form without permission from the author. Required.

W. Greene. *Econometric Analysis*. Published by Prentice Hall.

Description of the Course:

This course covers the basics of simple and multiple regression for cross-sectional data. It emphasizes intuition and interpreting the empirical examples. You will be prepared to study advanced issues in econometrics and facilitate empirical research.

Grading: There will be 3 exams, 5-6 assignments. They will count toward the grade as follows.

<i>Items</i>	<i>Percentage</i>
Mid-term Exam I	25%
Mid-term Exam I	25%
Final Exam	30%
Homework	15%
Quiz and participation	5%
Total	100%

Quiz: There will be uncertain number of quizzes. Quiz questions will cover review of contents in class. Full score of each quiz is 5.

Exams: Exams are tentatively scheduled on October 19, November 16 and December 11. Exams emphasize the most recent contents. Except that the absence is due to emergency, failure to attend an exam will result in zero scores on the exam. There are no make-up exams.

Lab: There will be one or two lab sessions. You are expected to learn STATA, a commonly used software in econometric analysis.

Topics

1. The Nature of Econometrics and Economic Data
2. Matrix, statistics and distribution theory
3. Regression Analysis with Cross-Sectional Data
4. The Simple Regression Model: OLS and its properties
5. Multiple Regression Analysis: Estimation
6. Multiple Regression Analysis: Inference
 - a. T test
 - b. F test
 - c. Confidence intervals
 - d. Asymptotic properties
7. Heteroskedasticity
8. Binary variables and linear probability model
9. Others
 - a. Comparative studies
 - b. Random samples
 - c. Analysis of variance

Academic Dishonesty: Academic dishonesty, once coming up, will be dealt with according to university's academic dishonesty policy.