

Bogazici University
Department of Economics

EC 532 : Econometrics (Part I)
Spring 2018

Lecture

Tuesday 1-2 NBZ 12, Thursday 1-2 NBZ 12

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Office Hours: TBA

COURSE OVERVIEW

This is the first part of the second graduate econometrics course and aims to provide students a rigorous introduction to selected topics in econometrics. The main topics of this part of the course are the models for discrete choice, linear panel data models and system of regression equations. Theoretical exposition will be accompanied with several application thus working knowledge of an estimation package (ex. Stata) is required. The course assumes a solid background in calculus, mathematical statistics and matrix algebra.

READINGS

Most of the material will be based on lecture notes. The main additional reference for this course is:

"Econometric Analysis" by Wiliam Greene,7th edition, (Prentice Hall)

"Microeconometrics: Methods and Applications" by Colin Cameronand Pravin K. Trivedi, 2005 (Cambridge University Press)

"Econometric Analysis of Cross Section and Panel Data",Jeffrey Wooldridge, Second Edition,(MIT University Press)

"An Introduction to Modern Econometrics Using Stata" by Christopher Baum, 2006, ISBN: 1-59718-018-0,(Stata Press)

COURSE REQUIREMENTS

Homework. The course work consists of four problem sets, and a final exam. The assignments will be posted on the class webpage. The homework assignments will count towards 20% of the grade and the Final Exam will be worth the remaining 80% of the final grade.

No late assignments are accepted. Only *documented* special circumstances will exempt you from this rule. If you know in advance that you will not be able to hand in an assignment on time, you must notify the Instructor before the assignment is due and hand it in early. Assignments are due at the beginning of class. Please do **NOT** submit any problem sets via email.

Collaboration among students is accepted and highly recommended. However, each student should write the homework separately, clearly acknowledging any type of help that was received. Identical homeworks will be considered scholastic dishonesty and consequently given a grade of zero.

Course Outline

Tentative Schedule for Lectures: (Part I)

- Discrete Choice models
 - Models for binary outcomes and estimation of binary choice models (Ch. 17 - Greene)
 - Discrete Choices and Count models - multinomial and conditional logit, models of ordered choices, models for count events (Ch. 18 - Greene)
 - Limited Dependent Variables-Truncation, Censoring, and Sample Selection (Ch. 19 - Greene)
- System of Equations (Ch.10 - Greene)
 - The Seemingly Unrelated Regressions Model (SUR)
 - Simultaneous Equation Models
- Panel data models (Ch. 11 - Greene)
 - Panel data models, pooled regression model
 - the fixed effects model, random effects model