

SYLLABUS

Panel Data and Discrete Choice Models ECON 5372 – 35344, Summer 2017

General Information

Time and Location: MW 5:30-8:20 PM, CoBA Lab #2

Instructor: Dr. Xiaojin (Aaron) Sun

Office: BUSN-222

Email: xsun3@utep.edu

Office Hours: By appointment

Course Overview

This course provides an introduction to panel data plus binary and multiple-outcome qualitative response econometric methods. Panel topics to be covered are fixed effects and random effects, as well as related tests of hypotheses. Discrete choice qualitative response topics to be covered include linear probability, probit, logit, ordered logit, nested logit, and multinomial logit models. Prerequisite: ECON 5371.

Textbook

- *Introductory Econometrics: A Modern Approach* by Jeffrey M. Wooldridge, 6th Edition. Cengage Learning. ISBN: 978-1-305-27010-7.
- *Econometric Analysis of Panel Data* by Badi H. Baltagi, 5th Edition. Wiley. ISBN: 978-1-118-67232-7.
- **(Optional)** *Microeconometrics Using Stata* by A. Colin Cameron and Pravin K. Trivedi, Revised Edition. Stata Press. ISBN: 978-1-59718-073-3.

Statistical Software

- Stata (available via UTEP MyAPPS)

Grading Policy

The class grade will be determined by the following components:

- **Homework Assignments (10%×6):** Six homework assignments will be given during the semester. Assignments will be collected at the beginning of the class on the

due date. No late submissions will be accepted. Your homework should be typed in Microsoft Word or Latex.

- **Term Project (40%):** You will have to use the knowledge acquired in this class to replicate the empirical analysis in a paper published in one of the top journals and present your replication results during the last week of the semester. The replication should consist of

1. complete Stata code to produce all your results,
2. nicely formatted figures and tables produced by your code, which correspond to those in the paper,
3. and a verbal discussion of these figures and tables.

Grading Scale: 90+=A, 80-89=B, 70-79=C, 60-69=D, 59 and below=F.

Tentative Course Schedule

Panel Data Models	
Simple Panel Data Methods	Wooldridge (Ch 13) & Baltagi (Ch 4.1)
Advanced Panel Data Methods	Wooldridge (Ch 14) & Baltagi (Chs 2&3)
Hypothesis Testing with Panel Data	Baltagi (Ch 4)
Instrumental Variables Estimation	Wooldridge (Ch 15)

Discrete Choice Models	
Limited Dependent Variable Models	Wooldridge (Ch 17) & Baltagi (Ch 11)
