ECO 2401 (Second Half)
ECONOMETRICS II

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Winter 2023

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Class meetings: Tuesday and Thursdays at 9-11am in room GE-100
Office hours: Tuesdays 6:00-7:00pm

1. COURSE DESCRIPTION

This second part of the course deals with econometric methods for the analysis of cross-sectional and panel data. The topics covered are linear panel data models, discrete choice models, random utility models, and evaluation of treatment effects.

2. MEETINGS

We will have two meetings per week: Tuesday and Thursdays at 9-11am in room GE-100.

3. EVALUATION

Midterm Exam	35%	Thursday, February 16, 2023, at 9-11am. In class.
Final Exam	35%	During University Exam Period. Date TBA.
Term Paper	30%	Friday, March 31st, 2023, by midnight.

4. GENERAL REFERENCES

- Amemiya, T. (1985): "Advanced Econometrics," Harvard University Press.
- Arellano, M. (2003): "Panel Data Econometrics," Oxford University Press.
- Cameron, C. and P. Trivedi (2005): "Microeconometrics: Methods and Applications," CUP.
- Maddala, G. S. (1983): "Limited-Dependent and Qualitative Variables in Econometrics," CUP.
- Manski, C. (2007): "Identification for Prediction and Decision," Harvard University Press.
- Train. K. (2003): "Discrete Choice Methods with Simulation," CUP.
- Wooldridge, J. (2001): "Econometric analysis of cross section and panel data," MIT Press.

5. OUTLINE AND REFERENCES

Topic 1: Linear Panel Data Models

References:
- Arellano (2003) chapters 2 to 7.
- Cameron and Trivedi (2005) chapters 21-22.
- Chamberlain, G. (1984): "Panel Data," Handbook of Econometrics, Chapter 22.
- Wooldridge (2001) chapters 10-11.

Topic 2: Binary Choice Models

References:
- Amemiya (1985) chapter 9.
- Cameron and Trivedi (2005) chapters 14 and 23.4.
- Maddala (1983) chapters 2 and 3.
- Manski (2007) chapter 13.
- McFadden, D. Handbook of Econometrics. Chapter 24. "Econometric Analysis of Qualitative Response Models."
- Wooldridge (2001) chapter 15.

Topic 3: Random Utility Models

References:
- Amemiya (1985) chapter 9.
- Cameron and Trivedi (2005) chapter 55.
- Maddala (1983) chapter 5.
- Train (2003) chapters 1 to 10.

Topic 4: Potential Outcomes Model and Estimation of Treatment Effects

References:
- Heckman, J. and E. Vytlacil (2007), Handbook of Econometrics, Vol 6B, chapter 70.
- Cameron and Trivedi (2005) chapter 25.
- Manski (2007) chapters 7, 9, and 10.
- Wooldridge (2001) chapter 18.

SCHEDULE OF LECTURES

WEEK	DATE	TOPIC
Week 7:	Tue. Feb. 28	Linear Panel Data Models: Static models
	Thu. Mar. 2	Linear Panel Data Models: Static models
Week 8:	Tue. Mar. 7	Linear Panel Data Models: Dynamic models
	Thu. Mar. 9	Linear Panel Data Models: Dynamic models
Week 9:	Tue. Mar. 14	Binary Choice Models
	Thu. Mar. 16	Binary Choice Models
Week 10:	Tue. Mar. 21	Random Utility Models
	Thu. Mar. 23	Random Utility Models
Week 11:	Tue. Mar. 28	Random Utility Models
	Thu. Mar. 30	Identification and Estimation of Treatment Effects
Week 12:	Tue. Mar. 4	Potential Outcomes Model & Estimation of TE
	Thu. Apr. 6	Potential Outcomes Model & Estimation of TE