

**ECO 2401 (Second Half)
ECONOMETRICS II**

**Victor Aguirregabiria. Department of Economics. University of Toronto
Winter 2020**

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Class meetings: Tuesday and Thursdays at 9-11am in room GE-100

Office hours: Tuesdays and Thursdays 2:00-3:00pm

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, binary choice models, multinomial models, sample selection, identification, and evaluation of treatment effects.

MEETINGS

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

EVALUATION

Midterm Exam	35%	Thursday, February 13, 2020, at 9-11am. Room BL325.
Final Exam	35%	During University Exam Period. Date TBA.
Term Paper	30%	Due date by midnight Friday, March 27, 2020.

The only generally acceptable reason for missing a term test is illness. A medical certificate is required under such circumstances. We would like to remind you that plagiarism is a serious academic offence with potentially serious penalties.

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.

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: Multinomial Models

References:

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

Topic 4: Roy Model and Evaluation 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. 25	Linear Panel Data Models: Static models
	Thu. Feb. 27	Linear Panel Data Models: Static models
Week 8:	Tue. Mar. 3	Linear Panel Data Models: Dynamic models
	Thu. Mar. 5	Linear Panel Data Models: Dynamic models
Week 9:	Tue. Mar. 10	Binary Choice Models
	Thu. Mar. 12	Binary Choice Models
Week 10:	Tue. Mar. 17	Multinomial Models
	Thu. Mar. 19	Multinomial Models
Week 11:	Tue. Mar. 24	Evaluation of Treatment Effects
	Thu. Mar. 26	Evaluation of Treatment Effects
Week 12:	Tue. Mar. 31	Roy's Model
	Thu. Apr. 2	Roy's Model
