

## Partial Identification in Microeconomics

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**Module Period: 8/25/08-10/6/08**

**MF: 1:15-2:30**

### Description

This course reviews classical problems in the literature on partially identified models. These problems appear in Manski (2003). The point of view, however, is the more modern approach of 'Random Sets' theory. I will give an introduction to random sets theory assuming the students have basic knowledge of probability theory. I will review key tools used in the random sets literature – tools that we will use later on in the course. From that point we will go over several chapters in Manski's book. The main focus of the course is identification. The statistical aspects of the problems discussed will only be briefly mentioned.

### Textbook & Papers

Manski, CF "Partial Identification of Probability Distributions" (2003)

Beresteanu and Molinari "Asymptotic Properties for a Class of Partially Identified Models" (Econometrica, Vol. 76, No. 4, pp. 763-814)

### Schedule

Topic 1: Introduction Probability Theory (done by students) Intro of Set Valued Random Variable	Problem Set 1
Topic 2: Missing Outcomes Chapter 1 (all sections) Chapter 7 (sections 1 – 3) Beresteanu & Molinari	Problem Set 2
Topic 3: Instrumental Variables Chapter 2 (all sections) Chapter 7 (section 4)	Problem Set 3
Topic 4: Treatment Response Chapter 8 Chapter 9	Problem Set 4

### Grading

4-5 regular graded problem sets.