

Microeconometrics

– Preliminaries –

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Description, audience, and prerequisites

- **Topics covered:** This course introduces students to econometric methods for the analysis of cross-sectional data and panel data. The course focuses on models with discrete and limited dependent variables. Extensions to panel data will be discussed.
- The **PC class** involves programming (and thus requires a good working knowledge of Stata) as well as mathematical derivations for key results presented in the lecture.
- **Audience:** Graduate (M.Sc., MQE and doctoral) students in economics
- **Prerequisites:** Econometrics or an equivalent graduate-level introductory course in econometrics

Schedule

- **Lecture:** Thursday, 12.15–13.45, Room M109, Main Building
- **Class:** Monday, 10.15–11.45, Room A125, Main Building
- Two lectures and one class will be swapped between Monday and Thursday.
- A detailed schedule is available in the LSF.

Course material

- Lecture notes, class assignments, datasets and Stata code will be made available in the LSF system.
- Slides will be posted on the day before the lectures (the latest). Additional handwritten notes might be posted after after the lectures.

Examination

- Note that in contrast to the *Microeconometrics* course offered in recent years which carried 12 ECTS, this *Introduction to Microeconometrics* is an M6 course that carries 6 ECTS.
- For M.Sc. and doctoral students, there will be a written exam (120 minutes), most likely on July 25.
The exam will be “open notes”: You can bring the printed lecture notes, the class assignments and solutions, and your own handwritten notes. You cannot bring any books or other printed materials.
- MQE students can take this course as part of one of their fields (with an oral field examination).

Textbooks and papers

- The lecture and the PC classes follow these books:
 - A. C. Cameron and P. K. Trivedi: Microeconometrics: Methods and Applications. New York: Cambridge University Press, 2005.
 - A. C. Cameron and P. K. Trivedi: Microeconometrics Using Stata. College Station, TX: Stata Press, 2010.
- Unless otherwise noted, references in these slides (“C&T”) refer to the 2005 textbook.
- Additional readings (recent journal articles that use the methods discussed in the lecture) will be announced along the way.

Overview

1. Regression and Maximum Likelihood estimation
2. Hypothesis and specification tests
3. Binary dependent variables
4. Multinomial models and discrete choice
5. Censoring and selection models
6. Count data models
7. Survival models

(Further topics to be announced)