Course Description
This course intends to provide students with basic microeconometric tools to address empirical questions, with special emphasis on their application to Labor Economics, Public Economics and Development Economics. I describe the econometric theory behind the different techniques, comment on empirical research papers applying these techniques and lead students through the implementation of the econometric methods using actual data sets.

Requirements
At the end of the course, students are expected to be able to discuss the suitability of the specifications used in applied economics research, comment on the validity of instrumental variable strategies, design difference-in-differences estimations, understand the context in which regression discontinuity design is applied and be able to obtain correctly estimated standard errors.

Evaluation
Students will be evaluated on the basis of a final project executed in groups of 4 students maximum, periodic assignments and an exam.

Required texts

Supplementary readings
TOPICS

1. THE EQUIVALENT IDEALIZED EXPERIMENT
*MHE*, Chapters 1-2

2. REGRESSION
*MHE*, Chapter 3

3. INSTRUMENTAL VARIABLES
*MHE*, Chapter 4

4. FIXED-EFFECTS, DIFFERENCE-IN-DIFFERENCES AND PANEL DATA
*MHE*, Chapter 5

5. REGRESSION-DISCONTINUITY DESIGNS
*MHE*, Chapter 6

6. STANDARD ERROR ISSUES
*MHE*, Section 3.1.3 and Chapter 8