



DEPARTMENT OF ECONOMICS

NEF1006 Econometric III, 7.5 credits

Ekonometri III, 7,5 högskolepoäng

Third-cycle level / Forskarnivå

Confirmation

This syllabus was confirmed by the Department of Economics on 2021-06-07, and is valid from Spring semester 2022.

Responsible Department

Department of Economics, School of Business, Economics and Law

Entry requirements

PhD students affiliated with the department of economics are eligible for the course. Students registered for third cycle studies at another department, faculty or university must apply for admission to the course to the deputy head of the department economics. It will be assumed that students taking the course understand the material taught in Econometrics I and Econometrics II (as well as all the material covered in a basic econometrics textbook such as Introduction in Econometrics, by Stock and Watson).

Learning outcomes

On successful completion of the course, the third-cycle student is expected to be able to:

Knowledge and understanding

- Understand the assumptions under which a particular econometric estimator is unbiased and/or consistent;

- Understand and reflect on the consequences of false model assumptions;

Competence and skills

- Be able to interpret results obtained by means of the econometric techniques covered in the

course

- Understand how the design of an empirical study can affect whether the research results are sustainable.
- Be able to critically assess empirical studies published in top journals

Judgement and approach

- Be able to implement the econometric techniques covered in the course, using real data

Course content

This course covers econometric methods for analysis of cross-section and panel datasets. The following topics will be discussed and analyzed: (1) fundamental single equation topics, the estimation of various average treatment effects and general issues related to empirical research designs; Basic and advanced issues related to (2) instrumental variables methods; (3) regression discontinuity designs and (4) difference-in-differences estimation; and (5) panel data models, including dynamic panel data models. The general focus of the course is in the application of econometric techniques.

Types of instruction

The course consists of lectures and workshops.

Language of instruction

The course is given in English.

Grades

The grade Pass (G) or Fail (U) is given in this course.

The grades are Pass or Fail.

Types of assessment

The course is assessed by

- biweekly assignments
- a replication exercise at the end of the course.

The assignments and replication exercise cover all learning goals. Of special importance for the assignments are learning goals 1-3, and for the replication exercise, learning goals 4-6.

Assignments can be conducted jointly (max 2 persons) but has to be written up separately. To get a Pass grade on this course, all the assignments and the replication exam has to be passed. In addition, active participation during class, including at least one presentation, is required.

Course evaluation

A written anonymized course evaluation will be carried out at the end of the course. The results of the evaluation will be communicated to the students and will be used to develop and improve the course in the future.

Other information

Appendix 1: Reading list