

Syllabus

for course at advanced level

Econometrics 3a: Methods for Analysing Micro Data
Ekonometri 3a: Metoder för analys av mikrodata

**7.5 Higher Education
Credits**
7.5 ECTS credits

Course code:	EC7412
Valid from:	Autumn 2017
Date of approval:	2013-05-23
Changed:	2016-09-08
Department	Department of Economics
Subject	Economics
Specialisation:	A1F - Second cycle, has second-cycle course/s as entry requirements

Decision

This syllabus was approved by the Board of the Department of Economics on September 8, 2016.

Prerequisites and special admittance requirements

Admission to this course requires that the student is either (1) enrolled in a Master's Programme in Economics at Stockholm University, or (2) has (a) eligibility for the Master's Programme in Economics at Stockholm University, and (b) prerequisites equal to the mandatory courses that have been given prior to this course according to the current curriculum for the Master's Programme in Economics.

Course structure

Examination code	Name	Higher Education Credits
741A	Econometrics 3a: Methods for Analysing Micro Data	7.5

Course content

This course has an empirical focus and aims at giving the student basic knowledge of how the different techniques covered in the course work and how they can be applied in empirical work. The course covers three main areas. (i) The random utility model and discrete choice techniques. This part will primarily cover the linear probability, logit and probit models for binary choice. (ii) Limited dependent variable techniques frequently used in microdata econometrics. This part covers basic techniques for dealing with censoring (such as the tobit model) and sample selection. (iii) Panel data methods. This section will first deal with the basic fixed and random effects models. In a latter part, we also cover event history methods and methods used for analysing duration data.

Learning outcomes

- Make the student able to understand the basic economic and data problems requiring the methods covered during the course.
- Make the student able to understand how the different methods work statistically.
- Make the students able to apply the methods empirically.
- Interpret the results obtained from the different methods and discuss the economic significance.

Education

Instruction will be conducted in the form of lectures. The course will be taught in English.

Forms of examination

The examination consists of two parts:

- required hand-in assignments,
- written exam

Grades will be set according to a 7-tier goal related scale. Passing grades include grades A, B, C, D, E, where A is the highest and E is the lowest. Failing grades include F and FX. Grade F is lower than grade FX.

Grading criteria:

- A (Excellent): Can exhaustively explain, using an independent and critical reasoning, the concepts addressed in the course. Being able to strongly judge whether econometric tools are appropriate for answering the specific question. Being able to apply the methods to real data and real economic problems with great skill.
- B (Very good): Can to a large extent explain, with an independent and critical reasoning, the concepts addressed in the course, both in technical and intuitive terms. Being able to judge whether econometric tools are appropriate for answering the specific question. Being able to apply the methods to real data and real economic problems with great skill.
- C (Good): Can explain, with an independent and critical reasoning, the concepts addressed in the course, both in technical and intuitive terms. Being able to discuss whether econometric tools are appropriate for answering the specific question. Being able to apply the methods to real data and real economic problems with great skill.
- D (Satisfactory): Can explain major parts of the concepts addressed in the course, both in technical and intuitive terms. Being able to discuss whether econometric tools are appropriate for answering the specific question.
- E (Enough): Can explain important parts of the concepts addressed in the course, both in technical and intuitive terms. Being able to discuss whether econometric tools are appropriate for answering the specific question.
- FX (Unsatisfactory): Is not used as a grade on the exam.
- F (Completely unsatisfactory): Cannot explain important parts of the concepts addressed in the course. Shows lack of ability to apply methods to real data and real economic problems.

Interim

In the event that the course is no longer offered in the course programme, the student will have three opportunities to re-take the exam in the three semesters after the course was last given.

Misc

The course is also included in the subject of econometrics.

Required reading

See course homepage available from www.ne.su.se.