

# Syllabus

for course at advanced level

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

**7.5 Higher Education  
Credits**  
**7.5 ECTS credits**

<b>Course code:</b>	EC7412
<b>Valid from:</b>	Autumn 2019
<b>Date of approval:</b>	2013-05-23
<b>Changed:</b>	2019-05-16
<b>Department</b>	Department of Economics
<b>Subject</b>	Economics
<b>Specialisation:</b>	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 May 16, 2019.

## 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 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. Being able to apply the methods to real data and real economic problems with skill.
- 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. Being able to apply the methods to real data and real economic problems with some skill.
- FX (Unsatisfactory): Is not used as a grade.
- F (Completely unsatisfactory): The requirements for E are not fulfilled.

### **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](http://www.ne.su.se).