



## Course syllabus

School of Business and Economics

Department of Economics and Statistics

2NA001 Econometrics I, 7,5 högskolepoäng

2NA001 Econometrics I, 7.5 credits

### **Main field of study**

Economics

### **Subject Group**

Economics

### **Level of classification**

First Level

### **Progression**

G1F

### **Date of Ratification**

Approved 2009-11-30

Revised 2013-06-11 by School of Business and Economics. Revised due to changes in literature and examination.

The course syllabus is valid from autumn semester 2013

### **Prerequisites**

30 credits in Economics, or the equivalent

## Objectives

After the course the student should be able to:

- apply statistical methods, ordinary least squares methods, on economic relationship
- apply standardized diagnostic test and make corrections to the econometric model
- use standard time series methods such ARIMA-models

## Content

The course contains:

- ordinary least squares method
- model specification and diagnostic testing
- dynamic econometric models
- causality and the method of instrumental variable

- identification, estimation, diagnostics and forecasting of ARIMA models

## Type of Instruction

Lectures and exercises. Obligatory parts will be stated in the class schedule.

## Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The assessment of the students performance is in the form of written examination. Results are graded using one of the terms Passed with distinction, Pass or Fail, and A-F according to the ECTS scale. For the grade pass, the objectives have to be reached; the grade is based upon the degree to which the objectives are met. The weighing of the grades to the course grade is following the principles in the document "Principer för betygsrapportering dnr ELNU 2011/160".

Students who do not achieve a satisfactory result in the examinations are permitted to make a second attempt approximately 5-8 weeks after the normal examination date. The student will have a minimum of five occasions for written exams in relation to the syllabus to which the student was accepted. Usually 3 occasions per academic year.

## Course Evaluation

A written course evaluation is carried out and compiled in a report, which is archived at the faculty. The results and possible measures taken are communicated by the course coordinator and presented to the students the next time the course is given, or in another way deemed suitable by the course coordinator. Other types of course evaluations, for example regular evaluations throughout the course or discussions with students, will be included and encouraged with the aim of ensuring continuous quality development.

## Required Reading and Additional Study Material

### Required reading

Stock, J.H. & Watson, M.W., *Introduction to Econometrics*. Pearson. Latest Edition. 840 pages.

Scientific articles and statistics provided by the teacher. About 100 pages.