



## Course syllabus

School of Business and Economics

Department of Economics and Statistics

4NA900 Utvärdering av ekonomisk politik med stora data, 15 högskolepoäng

4NA900 Economic Policy Analysis using Big Data, 15 credits

### **Main field of study**

Economics

### **Subject Group**

Economics

### **Level of classification**

Second Level

### **Progression**

A1F

### **Date of Ratification**

Approved by School of Business and Economics 2023-01-23

The course syllabus is valid from autumn semester 2023

### **Prerequisites**

General entry requirements for studies at the second-cycle level and specific entry requirements:

- a bachelor's degree in economics, in another main field of study in the social or natural sciences, or the equivalent
- economics A1N or A1F at least 30 credits
- statistics, G1N or G1F, at least 15 credits, or higher education credits in time series and regression analysis, or the equivalent
- English 6, or the equivalent.

## Objectives

### **Module 1, 7.5 credits**

After completing this module the student should be able to:

- apply economic and statistical tools to interpret results from studies that use big data to evaluate economic policies
- assess and motivate their method of choice and show understanding regarding consequences
- identify, restrict and formulate a problem using advanced scientific relevance

- critically reflect upon empirical methods used to evaluate economic policies

### **Module 2, 7.5 credits**

After completing this module the student should be able to:

- assess important aspects of data collection and the organising of data relevant to evaluating economic policies
- assess and motivate their choice of method and demonstrate an understanding of its consequences

## Content

### **Module 1, 7.5 credits**

The module contains:

- empirical methods for evaluating economic policies
- theory on market failure and market intervention
- analysis of economic policies using big data
- application of economic analysis of economic policies in different areas such as health, education, crime, and family policy.

### **Module 2, 7.5 credits**

The module contains:

- data collection with experiments and questionnaires
- measurement errors
- organisation and preparation of econometric analysis of big data
- use of software to analyse big data.

## Type of Instruction

### **Module 1, 1.5 credits**

Teaching consists of lectures and seminars.

### **Module 2, 7.5 credits**

Teaching consists of lectures and exercises.

The following applies to all modules:

Teaching is carried out as distance learning with help from a learning platform and consists of self-studies based on instructions from the course coordinator. The teaching consists of lectures, exercises and seminars. The course requires access to a computer and the internet. No compulsory meetings on campus are included.

## Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

### **Module 1, 7.5 credits**

The module is examined through a written hand-in assignment which will be presented at a seminar 7.5 credits.

### **Module 2, 7.5 credits**

The module is examined through written hand-in assignments 7.5 credits.

The following applies to all modules:

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail.

The grade of the course is a combined assessment from the grades of the various course modules. The combined assessment is based on the grades and the scope of the course 15 credits. The more extensive a module is, the greater impact it will have on the final grade. Module grades with the grading scale between G-U will not be considered into the combined assessment. However, a G is required for each of the modules in order to receive a final course grade.

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. An examiner can, in exceptional cases, decide that a student who is close to the level for a passing grade may carry out supplementary assignments in order to reach the passing grade.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

## Course Evaluation

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. The course evaluation is to be carried out anonymously.

## Required Reading and Additional Study Material

### **Required reading**

**The following applies to all modules:**

### **Additional study material**

Scientific articles specified in evaluating economic policies.