

## Econometrics

Ekometri  
7.5 credits

Single subject and programme course

770G32

Valid from: 2022 Spring semester

|                                                                         |                                                |                                   |
|-------------------------------------------------------------------------|------------------------------------------------|-----------------------------------|
| <b>Determined by</b>                                                    | <b>Main field of study</b>                     |                                   |
| Course and Programme Syllabus Board at the Faculty of Arts and Sciences | Economics, Business Administration, Statistics |                                   |
| <b>Date determined</b>                                                  | <b>Course level</b>                            | <b>Progressive specialisation</b> |
| 2020-05-11                                                              | First cycle                                    | G1F                               |
| <b>Revised by</b>                                                       | <b>Disciplinary domain</b>                     |                                   |
| Course and Programme Syllabus Board at the Faculty of Arts and Sciences | Social sciences                                |                                   |
| <b>Revision date</b>                                                    | <b>Subject group</b>                           |                                   |
| 2021-10-15                                                              | Economics                                      |                                   |
| <b>Offered first time</b>                                               | <b>Offered for the last time</b>               |                                   |
| Spring semester 2021                                                    |                                                |                                   |
| <b>Department</b>                                                       | <b>Replaced by</b>                             |                                   |
| Institutionen för ekonomisk och industriell utveckling                  |                                                |                                   |

## Course offered for

- Bachelor's Programme in Political Science and Economics
- Business and Economics Programme - International - French
- Business and Economics Programme - International - Spanish
- Business and Economics Programme - International - German
- Business and Economics Programme - International - English
- Business and Economics Programme

## Entry requirements

- Economics, basic course, 30 ECTS credits (including Microeconomics and Macroeconomics with at least 7,5 ECTS credit each) with at least 15 ECTS credits passed.

## Intended learning outcomes

On completion of the course, the student should be able to

- account for basic econometric model formulations and the implications of different underlying model assumptions
- account for the most commonly occurring estimation methods and for how different model formulations and characteristics of various types of data influence choice of estimation method
- interpret the results of implemented estimates of both micro and macroeconomic models and test different hypotheses with relevance to the models that have been tested.

## Course content

The course contains the following parts:

- The classical linear regression model and different abnormalities from this model
- Estimation methods for linear regression models
- Properties at various types of data
- Models of discrete choices
- Simultaneous equation systems
- Hypothesis testing for deviations from underlying model assumptions and for occurrence of different economic relationships

## Teaching and working methods

The teaching takes the form of lectures and computer exercises. The students should also study independently.

## Examination

The examination consists of:

- individual written examination, grading scale: UV
- group assignments, grading scale UG

The final grade G requires G in both examinations. The final grade VG also requires VG in the individual written examination.

Detailed information can be found in the study guide.

If special circumstances prevail, and if it is possible with consideration of the nature of the compulsory component, the examiner may decide to replace the compulsory component with another equivalent component.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it.

If the coordinator has recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

An examiner may also decide that an adapted examination or alternative form of examination if the examiner assessed that special circumstances prevail, and the examiner assesses that it is possible while maintaining the objectives of the course.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

## Grades

Three-grade scale, U, G, VG

## Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is conducted in such a way that there are equal opportunities with regard to sex, transgender identity or expression, ethnicity, religion or other belief, disability, sexual orientation and age.

If special circumstances prevail, the vice-chancellor may in a special decision specify the preconditions for temporary deviations from this course syllabus, and delegate the right to take such decisions.

### About teaching and examination language

The teaching language is presented in the Overview tab for each course. The examination language relates to the teaching language as follows:

- If teaching language is “Swedish”, the course as a whole could be given in Swedish, or partly, or as a whole, in English. Examination language is Swedish, but parts of the examination can be in English.
- If teaching language is “English”, the course as a whole is taught in English. Examination language is English.
- If teaching language is “Swedish/English”, the course as a whole will be taught in English if students without prior knowledge of the Swedish language participate. Examination language is Swedish or English depending on teaching language.