



Faculty of Arts and Social Sciences
Economics

Syllabus

Applied Econometrics

Course Code:	NEGC16
Course Title:	Applied Econometrics <i>Tillämpad ekonometri</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

Major Field of Study:
NAA (Economics)

Course Approval

The syllabus was approved by the Faculty of Arts and Social Sciences 2019-03-07, and is valid from the Autumn semester 2019 at Karlstad University.

Prerequisites

60 ECTS credits in Economics, including Econometrics (7.5 ECTS credits) and Statistics (15 ECTS credits)

or

60 ECTS credits in Economics and 22.5 ECTS credits in Statistics, including Econometrics (7.5 ECTS Credits)

Learning Outcomes

Upon completion of the course, students should be able to

- select and apply appropriate statistical models pertaining to various subject areas in economics,
- estimate non-linear models,
- analyse models with a dichotomy variable as dependent variable: the LPM, Logit, and Probit model,

- use simultaneous equation models, identification, and the indirect and two-step least squares methods,
- use dynamic models with time-delayed explanatory variables,
- use the Granger causality test and
- give an account of basic theories of stationary and non-stationary models such as the ARMA and the ARIMA models.

Content

The course covers the use of statistical and mathematical methods for analysing economic data.

The course covers the following subject areas

- non-linear regression models,
- regression with qualitative dependent variables,
- simultaneous equation models,
- dynamic models,
- time serial analysis and
- the application of econometric methods on economic models.

Reading List

See separate document.

Examination

Assessment is based on a written exam and an individual hand-in assignment presented orally and in writing.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.