



ME2706 Basic Econometrics 7.5 credits

Grundläggande ekonometri

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for ME2706 valid from Autumn 2014

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Industrial Management, Technology and Economics

Specific prerequisites

At least 180 credits of higher education, thereof at least 30 credits within mathematics/economics, and documented knowledge in English B or the equivalent.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

On completion of the course, the student should:

- have understanding of why econometrics is necessary and which tools that can be used for an empirical analysis
- apply econometric tools for modelling, estimation, conclusion and forecasts in connection with real problems from different parts of the society
- critically evaluate results and conclusions from others that use basic tools for quantitative analysis
- have a basis and an understanding of further studies of econometrics/quantitative analysis
- have an understanding the range of more advanced technologies that are available and that can be covered in later econometric courses/courses in quantitative analysis

Course contents

- Statistical probability theory and mathematics
- Simple and multivariable models for linear regression analysis
- Models for simultaneous equations
- Estimations with time series data
- Models for panel data
- Models for quantitative variables
- Hypothesis testing, prediction and model adaptation

An important part in the course is empirical application of the theoretical skills in the form of computer-based laboratory sessions.

Course literature

Hill, R.C., Griffiths, W.E., Lim, G.C. (2012) Principles of Econometrics (Fourth Edition), Wiley

ww.wiley.com/go/global/hill

Examination

- TEN1 - Examination, 5.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Assignments, 2.5 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.