Details of approval

The syllabus was approved by The Board of the Department of Economics on 2011-06-07 and was last revised on 2019-11-05. The revised syllabus applies from 2020-08-31, autumn semester 2020.

General Information

This is a single subject master course in economics. The course is either obligatory or optional within a number of master programmes at Lund University.

Language of instruction: English
Teaching may be in Swedish if all registered students have a good knowledge of Swedish.

Main field of studies

Economics

Depth of study relative to the degree requirements

A1N, Second cycle, has only first-cycle course/s as entry requirements

Learning outcomes

Knowledge and understanding

Students shall:

- have a deeper understanding of linear regression models, including the representation using matrix algebra,
- be able to estimate linear and nonlinear models using least squares, generalised least squares, maximum likelihood and instrumental variables, and have an understanding of when these methods should be used,
- be able to formulate and test linear and nonlinear hypotheses,
- be able to analyse cross-sectional models with limited dependent variables,
- be able to analyse stationary and non-stationary time series models,
- be able to analyse panel data models,
- be able to generalise their knowledge to econometric problems that haven't been
treated during the course,
- be able to understand relevant empirical and econometric research.

**Competence and skills**

Students shall have the ability to independently:

- apply advanced econometric tools to economic problems,
- evaluate whether the assumptions made by the chosen model are reasonable,
- apply rational modelling strategies even when basic assumptions must be
rejected,
- implement econometric analyses using econometric software,
- give an account of and discuss their econometric abilities.

**Judgement and approach**

Students shall have developed the ability to pursue further studies in the subject and
should be able to search for and evaluate information with a high degree of
independence. Students shall also have developed the ability to individually write an
empirically orientated paper at the master level.

**Course content**

This course gives the basis that is needed to enable students to empirically analyse
economic data without making unrealistic assumptions. Modern econometric
techniques are treated, and at the same time considerable emphasis is placed on
fundamental econometric thinking. Theoretical studies are interwoven with practical
applications in the form of computer exercises, which are carried out using
econometric software on a PC.

**Course design**

1. Teaching: Tuition consists of lectures and computer exercises.

**Assessment**

1. Examination: Written exams take place at the end of the course. There will be
further opportunities for examination close to this date. The computer exercises will
be graded, and the marks carried forward to examinations taken the same term.
Other forms of examination may be used to a limited extent.
2. Limitations on the number of examination opportunities: –

The University views plagiarism very seriously, and will take disciplinary action against
students for any kind of attempted malpractice in connection with examinations and
assessments. Plagiarism is considered to be a very serious academic offence. The
penalty that may be imposed for this, and other unfair practices in examinations or
assessments, includes suspension from the University for a specified period.

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syllabus approved in Swedish
The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Subcourses that are part of this course can be found in an appendix at the end of this document.

**Grades**

Marking scale: Fail, E, D, C, B, A.

1. Grading: Grade (Definition), Points or percentage out of maximum points, Characteristic
   A (Excellent), 85–100, A distinguished result that is excellent with regard to theoretical depth, practical relevance, analytical ability and independent thought.
   B (Very good), 75–84, A very good result with regard to theoretical depth, practical relevance, analytical ability and independent thought.
   C (Good), 65–74, The result is of a good standard with regard to theoretical depth, practical relevance, analytical ability and independent thought.
   D (Satisfactory), 55–64, The result is of a satisfactory standard with regard to theoretical depth, practical relevance, analytical ability and independent thought.
   E (Sufficient), 50–54, The result satisfies the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought, but not more.
   U (Fail), 0–49, The result does not meet the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought.

   Students have to receive a grade of E or higher in order to pass a course.

2. Weighting grades from different parts of the course: –

3. Grading scales for different parts of the course: –

**Entry requirements**

Students admitted to the Master programme in Economics and who have taken the course Advanced Microeconomic Analysis are qualified for this course. For other students at least 90 ECTS-credits in economics at the undergraduate level are needed for admission to all master courses in economics. To be admitted to this particular course these credits must include a course in intermediate microeconomic analysis (e.g. NEKG21) and a course in intermediate econometrics (e.g. NEKG31) or equivalent courses.

**Further information**

1. Transitional regulations: This course replaces NEKM23 "Advanced Econometrics".
2. Limitations in the period of validity: –
3. Limitations: This course may not be included in the same degree as NEK711 "Econometrics D" or NEKM23 “Advanced Econometrics”.
4. Similar courses: –
5. Limitations in renewed examination: –
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Subcourses in NEKN31, Economics: Advanced Econometrics

Applies from H11

1101  Advanced Econometrics, 7,5 hp
      Grading scale: Fail, E, D, C, B, A

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