



AH2305 Spatial and Transport Economics 7.5 credits

Rumslig och tranportekonomi

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 AH2305 valid from Autumn 2008

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

A Bachelor's degree in engineering, science, economics, or planning or at least 60 credits in mathematics, physics, statistics or computer science; course AH2301 Transport Policy and Evaluation or an equivalent course.

Language of instruction

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

Intended learning outcomes

After the course, the student should be able to:

- Account for fundamental micro economic principles applicable to the analysis of transport policy issues.
- Apply these principles to a selection of policy issues.
- Identify and account for various market structures including monopoly markets.
- Account for regulation and deregulation in different transport markets.
- Account for welfare effects of pricing principles and investment.
- Explain the fundamental urban economics model and its implication for urban density and land rents.
- Explain some transport and land use models and discuss their usefulness and applicability.
- Describe principles for firm and retail location and account for their implications.
- Describe and apply basic principles of normative facility location.

Search for relevant literature for some policy issue in spatial and transport economics and describe and discuss this issue orally and in writing

Course contents

- Fundamental principles of micro economics applied to transport issues.
- Competition and monopoly in transport markets.
- Regulation and deregulation in transport markets.
- Welfare effects of pricing and investment.
- Introduction to urban economics.
- Transport and land use in urban areas.
- Urban land and housing markets.
- Firm and retail location.
- Fundamental principles of normative facility location.

The content of the course is presented and exercised in lectures. In a minor project assignment the student will enhance her/his understanding of the material by analysing some relevant policy issue that will be presented orally and in writing.

Course literature

The latter part of P. S. McCarthy, 2001, *Transportation Economics: Theory and Practice: a Case Study Approach*, Blackwell Publishing. Additional course literature will be announced at the course start.

Examination

- PRO1 - Project Assignment, 2.5 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 5.0 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.

Other requirements for final grade

A mandatory written examination, TEN1, equivalent to 5 credits with grading scale A-F and a mandatory project assignment, PRO1, equivalent to 2.5 credits with grading scale A-F. The final grade of the course according to the grading scale A-F is determined as the weighted average of TEN1 and PRO1.

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.