



AI2155 Urban Economics and Cost Benefit Analysis 7.5 credits

Stadsbyggnadsekonomi

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

Establishment

The course syllabus is valid from VT 25 according to decision of the Director of First and Second Cycle Education: 2024-2013 3.2.2 Decision date: 2024-09-26

Grading scale

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

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

Eligibility to the master programme in Real Estate and Construction Management.

Language of instruction

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

Intended learning outcomes

Upon completion of the course, course participant should be able to:

- Describe and analyze the economic factors behind the existence, evolution, and growth of cities.
- Analyze and interpret quantitative data about urban growth and economic base models.
- Apply location theories that explain how land prices and zoning regulations influence the location of various economic activities and housing markets.
- Examine the economic reasons and outcomes of significant urban issues like traffic congestion and residential segregation as well as sustainable policy solutions for future urban development.
- Describe the role of local government in providing public goods and household choices of amenities in relation to taxes.
- Explain the Cost-Benefit Analysis (CBA) concept used in public infrastructure projects, including its underlying assumptions and limitations.

Course contents

Market forces in the development of cities; land rent, land use/control; urban problems such as traffic congestion; cost benefit analysis.

Examination

- ÖVN1 - Assignments, 3.0 credits, grading scale: P, F
- TEN1 - Written Exam, 4.5 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.

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

Other requirements for final grade

Course work consists of a term paper and a series of exercises. In order to pass the course students need to have the term paper approved, in addition to passing the final written exam.

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.