



# AH1021 Urban and Traffic Planning, Basic Course 7.5 credits

Stads- och trafikplanering, grundkurs

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

## Establishment

## Grading scale

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

## Education cycle

First cycle

## Main field of study

The Built Environment, Technology

## Specific prerequisites

Planning, Building and Environment Law besides Economic Geography.

## Language of instruction

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

## Intended learning outcomes

The course provides a basic overview of theory and methods for analysis and planning of urban transportation system and their interaction with the urban environment. The aim is also to enhance the ability to work in groups with traffic planning including design and presentation of plans and solutions regarding traffic system & and urban development.

## Course contents

- Methods for analysis, design and evaluation of traffic facilities.
- Overall context of transportation planning
- Methods for goal analysis, design and evaluation of traffic network & facilities for different modes of transport.
- Traffic calming.
- Calculation of environmental impact of traffic including noise and pollution
- Historic overview of the relationship between transport and urban localisation and development.
- Excursion in the Stockholm region reviewing areas from different periods and the relationship between land use, urban form and physical planning.
- Short exercises with application of different theories and methods.
- Project work with development of a town plan for part of a city.

## Course literature

- Course folder including traffic planning textbook, material from Swedish guidelines and manuals for urban and traffic planning, and extracts from urban planning literature. In Swedish.
- Lugna gatan (Kommunförbundet 1998). In Swedish.
- TRAST; Trafik för en attraktiv stad (Vägverket och Kommunförbundet 2004). In Swedish.
- Vägar och gators utformning (VGU 2004) Vägverket och Kommunförbundet. In Swedish.
- Stadsplanera (Boverket 2003). In Swedish.
- Stadsplanering i Sverige (Åström 2003). In Swedish.
- Trafiken i den hållbara staden (Christer Hydén 2008)

## Examination

- ÖVN1 - Exercises, 4.5 credits, grading scale: P, F
- TEN1 - Examination, 3.0 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.

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

- TEN1 - Examination, 3.0 credits, grade scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises, 4.5 credits, grade scale: P, F

## Other requirements for final grade

Written examination (TEN; 3 cr) and project work (ÖVN; 4,5 cr).

## 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.