



AG2144 Sustainable Urban Mobility 7.5 credits

Hållbar urban mobilitet

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

Establishment

The course syllabus is valid from the Autumn semester 2025 according to the decision of the Director of First and Second Cycle Education: HS-2025-0752 Date: 2025-04-02

Grading scale

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

Education cycle

Second cycle

Main field of study

The Built Environment

Specific prerequisites

In total 180 ECTS-credits within the subject architecture, landscape architecture, physical planning, the built environment, environmental engineering, computer science, geoinformatics, urban and regional planning, geography or other social or natural science degree relevant for the course.

English 6

Language of instruction

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

Intended learning outcomes

After passing the course, the student should be able to:

- Give an account of practices and infrastructures for sustainable transport and mobility as a component of sustainable urban development
- Give an account of the interplay between land use planning, transportation planning and other fields of urban development in relation to the furtherance of more sustainable cities and demonstrate an understanding of challenges and opportunities associated with the coordination of transport and mobility planning and other aspects of urban and regional planning
- Apply theories on sustainability transformation to questions on sustainable transport and mobility in an urban context
- Demonstrate a qualitative understanding of mobility needs of urban residents and their relation to and experiences from the transport system
- Discuss how gender, socio-cultural, economic and other factors influence individuals' and different societal groups' accessibility to mobility options
- Analyse mobility patterns as part of urban social dynamics and transport infrastructure and discuss in a qualitative way the role of social, economic and cultural factors to shape these patterns
- Analyse alternative courses of action for the development of sustainable urban mobility and discuss the applicability of methods for the accelerating sustainability transformation in relation to sustainable urban transport and mobility
- Analyse challenges for decision-making and cooperation between different actors in relation to the implementation of measures for sustainable transport and mobility in an urban context

Course contents

The course consists of lectures, seminars, a group assignment and an individual assignment. The first part of the course is structured in three packages (Sustainability, Mobility, Governance), where each package contains three lectures and ends with a seminar to discuss the preparatory readings for all lectures in that package. The second part of the course consists of a group assignment followed by an individual assignment, where the course content from the first part is applied to real mobility innovations and policy interventions.

Examination

- SEM1 - Seminar, 2.0 credits, grading scale: P, F
- INL1 - Hand in assignment, 3.0 credits, grading scale: A, B, C, D, E, FX, F

- PRO2 - Project, 2.5 credits, grading scale: P, 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.

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.