



HS1009 Urban Planning 7.5 credits

Samhällsplanering

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

Establishment

Course syllabus for HS1009 valid from Spring 2016

Grading scale

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

Education cycle

First cycle

Main field of study

Architecture, Technology

Specific prerequisites

Students in year 2 of the Bachelor of Science in Engineering programmes Constructional Engineering and Design or Engineering and Economics specialising in Constructional Engineering and Design

A minimum of 20 credits from the following courses:

A1710 Building Technology 1, Constructional Engineering and Design

AF1711 Building Technology 2, Building Physics and Materials

HS1005 Surveying and Mathematical Statistics

AF1722 / HS1006 The Building Process

AF1723 Building Logistics and Risk Management

Language of instruction

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

Intended learning outcomes

Goals to receive a grade of E:

Upon completion of the course, the student shall be able to:

- the basic concepts of the Swedish Planning and Building Act
- design a smaller area with different types of structures and thereafter draw up a detailed development plan illustration using CAD
- create a detailed development plan along with regulations
- account for how a detailed development plan is formally managed up until it becomes legally binding
- give a graphic presentation of a detailed development plan
- account for the establishment of a building permit
- basic concepts of real estate law
- calculate the total water requirements for an area with various types of developments and urban functions
- calculate run-off from wastewater and surface water for an area with various types of developments and urban functions
- dimension water mains, wastewater pipes, and storm pipes from this area
- account for the geometric design and profile of a street as well as the composition of the road structure

Course contents

- Construction development
- Municipal land use planning
- Building permits and detailed development plans
- Water requirements in a neighborhood
- Design of water supply and sewage piping
- The geometric design of a street in plan and profile
- The various layers in the road structure and their functions

Course literature

Adolfsson, K. och Boberg, S. Detaljplanehandboken. Handbok för detaljplanering enligt plan- och byggnadslagen, PBL

Julstad, B. Fastighetsindelning och markanvändning

Plan- och bygglagen 2010:900

Fastighetsbildningslagen 1970:988

Kompendium i Vägteknik, KTH Avdelningen för Vägteknik

Additional reading materials will be announced at the start of the course.

Equipment

In accordance with the course memo

Examination

- PRO1 - Project, 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.

The course contains a number of mandatory modules, in accordance with the course memo.

Other requirements for final grade

To receive a final grade for this course, the following are required: a passing grade on the written examination (TEN1, grade E or higher), a passing grade on the submitted assignments (PRO1) as well as participation in the mandatory modules.

Overall course grade is based on grading scale A-F.

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.