



AF1745 Building Techniques, Detached Housing Project 10.0 credits

Byggteknik, småhusprojektering

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

The official course syllabus is valid from VT23.

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Additional regulations

Replaces AF1738 from academic year 21/22.

Specific prerequisites

No.

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 students should be able to:

- describe building construction for a small building
- explain the correlation between house building technology and society's sustainability goals
- describe rock and soil types in Sweden
- calculate the total water demand and the runoff of waste and storm water for a real estate unit
- plan and project part of a villa with specified dimensions for construction and building services equipment using suitable software

Course contents

- House building technology for smaller buildings
- Sustainable building techniques
- Water demand for a real estate unit
- The formation, structure, composition and classification of soil types
- Building services techniques
- Project planning with CAD
- Project task "Villa"

Examination

- PROA - Project assignment, 5.0 credits, grading scale: P, F
- TENA - Written exam, 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.

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.