AF1729 Structural Design of a House Project and/or a Infra Structural Project 7.5 credits

Projektering av ett husprojekt och/eller ett infraprojekt

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

Establishment

The official course syllabus is valid from spring semester 2027 as decided by the Director of First and Second Cycle Education. Decision date: 2026-10-06.

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed courses:

AF1746/AF1767

AF1747

Intended learning outcomes

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

- Design and size structural components of a house.
- Design, size, and present simple infrastructure structures, such as roads or basic bridges.
- Present design and sizing results in the form of calculations and drawings.

Course contents

- Structural design and sizing of building components in a house.
- Structural design and sizing of simple infrastructure structures, such as roads or basic bridges.
- Perform structural design through calculations and drawings at a level of detail corresponding to simplified construction documents.
- Design and size various structural components of a building or infrastructure asset, taking sustainability into account with regard to material selection and structural dimensioning.

Examination

- PROA - Project, 5.0 credits, grading scale: A, B, C, D, E, FX, F
- TENA - Examination, 2.5 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.

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.

Additional regulations

Selection for courses with limited capacity: In cases where the number of qualified applicants exceeds the number of places available in the course, selection is based on the number of credits earned within the TIBYH programme.