



HS105X Degree Project in Structural Engineering, First Cycle 15.0 credits

Examensarbete inom konstruktionsteknik, grundnivå

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

Course syllabus for HS105X valid from Spring 2008

Grading scale

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

Education cycle

First cycle

Main field of study

Built Environment, Technology

Language of instruction

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

Intended learning outcomes

This course aims to teach students to independently apply engineering knowledge acquired during their education.

Upon completion of the course, students shall:

- Be able to apply the knowledge and skills acquired during their education on real problems
- Be able to independently analyze and approach a major problem in the area of technology
- Demonstrate an ability to reflect on, evaluate, and critically review their own and others results
- Be able to document and present their work for a specific target group, with high requirements on structure, formality, and language
- Be able to write a summary report in English using correct terminology for the subject
- Demonstrate the ability to identify their need of additional knowledge and to continuously develop their skills
- Demonstrate the ability to integrate the concept sustainable development into their degree project

Course contents

The work will contain problems that provide a deeper or broader knowledge of the technical area. The work is generally performed at a worksite external to KTH.

Disposition

The degree project is either performed individually or together with another student. In the latter case, the examiner will ensure that each student's work meets the requirements for the individual degree project.

The degree project is carried out with the support of an academic supervisor as well as a supervisor with ties to the industry.

The degree project must be partially presented after half the study period and finally presented, orally and in writing, in Swedish - or English once the examiner has approved it. To complete the course, opposition of another student's thesis and public defence of the student's own thesis is required.

For more information, see the directives for degree projects at ABE/Constructional Engineering and Design.

Specific prerequisites

A minimum of 120 credits in the programme, and passes in compulsory courses for the chosen specialisation and the advanced courses necessary for the project.

Course literature

Students are expected to individually locate and study reference material related to the given problem area. Course reading materials may also be suggested by the examiner or supervisor.

Examination

- XUPP - Examination Question, 15.0 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.

The degree project will be assessed in terms of:

- process
- engineering and academic contents
- presentation

To receive a passing grade, the performance may not receive a failing grade on any of the three grounds for assessment. The grade constitutes an overall assessment and is decided by the examiner.

Examination is conditional on participation in lectures/seminars on scientific theory and method.

Examination requires a final report with a passing grade that has been brought up during a seminar, as well as participation as an opponent at a public defence. The full examination work will be reported as one unit of 15.0 credits. The title of the examination work in Swedish and English will be recorded in the final grade.

Other requirements for final grade

For the degree project to receive a passing grade, a partial presentation must have been carried out. Weekly time reports, in writing, must have been submitted. The degree project must have been checked for plagiarism, and once it has been given a passing grade after a seminar, the final report must be submitted in accordance with the instructions from the department.

A grade will be awarded on the scale A-F. Passing grades are A-E, with A being the highest.

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.