



# AF122X Degree Project in Structural Engineering and Bridges, First Cycle 15.0 credits

Examensarbete inom bro- och stålbyggnad, 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 AF122X valid from Autumn 2015

## Grading scale

P, F

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

A general condition is that a main part of the studies, at least 120 credits of which 60 credits with progressive specialisation for first-cycle studies within the main field of study, should be completed before the degree project may be started. It is the examiner that decide if the student has the specialisation that is intended and that the student completed the main part

of the studies before degree project is started. Exemption can after assessment be granted by the director of first and second cycle education.

## Language of instruction

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

## Intended learning outcomes

After completed degree project, the student should be able to

Show knowledge of the disciplinary foundation of the chosen subject area, applicable methods and orientation in current research and development and show advanced knowledge within some part of the subject area

Demonstrate the ability to search, collect and use relevant information critically and identify his needs of additional knowledge

Demonstrate the ability to formulate, assess and handle problems and critical discuss phenomena, issues and situations

Demonstrate the ability to plan and with applicable methods carry out assignments within given time frames

Demonstrate the ability to orally and in writing in dialogue with different groups account for and discuss information, problem and solutions

Demonstrate the ability to make assessments considering relevant scientific, social and ethical aspects

Show such skills that is required to work independently within some part of the main field of study technology

Demonstrate understanding of the significance of sustainability within the subject area

## Course contents

The degree project should constitute a specialisation within the field of technology/the main field of study for first-cycle studies. The course is designed as a limited research project within Structural Engineering and Bridges.

## Disposition

Kursen bedrivs som ett projektarbete och genomförs individuellt eller tillsammans med annan student. Kursen är upplagd med organiserad handledning och med avstämning av delmoment under kursperioden.

## Course literature

Relevant literature to be able to carry out the degree project.

## Examination

- XUPP - Examination, 15.0 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.

The degree project should normally be carried out during the last semester of the educational programme.

To pass the degree project, the performance must not be unsatisfactory in any of the expected learning outcomes of the course.

## Other requirements for final grade

An approved degree project report that has been presented at a seminar.

## 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.