



# AH259X Degree Project in Safety Research, Second Cycle 30.0 credits

Examensarbete inom säkerhetsforskning, avancerad nivå

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

## Establishment

Course syllabus for AH259X valid from Autumn 2010

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

The Built Environment

## Specific prerequisites

In general the rule is that the main part of the studies, at least 60 credits should be ready before the thesis work is allowed to start. The examiner must make sure that the student has focused in the relevant area and that the main part of the program is ready before the thesis work starts. Exceptions can be made by the person responsible for basic education.

## Language of instruction

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

## Intended learning outcomes

The master's project should develop the student's ability to work independently, to acquire deepened knowledge about a problem in risk- and safety analysis and to delimit, plan and carry out a longer project. The student should get training in scientific methodology, report writing and oral presentations.

## Course contents

The subject comprises theory and model development for studies of risk- and safety analysis. Decision support systems are designed for use in risk- and safety analysis. Other examples are models of how risks impacts on location of activities or economic development in the society. The constructed tools can be used to evaluate policy measures from efficiency, equity or environmental perspectives. Examples of such tools are event trees and fault trees. The subject also includes studies of other aspects of risk- and safety, such as vulnerability, impacts regional development and the need for and effects of maintenance.

## Disposition

The master's project is performed individually and corresponds to 20 weeks of full time studies. The topic can originate from the student, a teacher or an external actor. The student prepares a work plan. When the examiner has approved the work plan, a supervisor is appointed. The project contains literature studies, documentation of theory and method, and analyses of results. The project can also contain model building and model analyses. The work should be summarised in a pedagogical report, which proves that the student has been trained in scientific work and reporting. The report is presented at a seminar with the examiner and an invited audience. The examiner decides on necessary revisions after the seminar. After the necessary revisions are made in the manuscript the examiner can approve the thesis without further seminar.

## Course literature

Decided individually by the examiner in consultation with the student.

## Examination

- XUPP - Examination Question, 30.0 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.

XUPP - Project work, 30hp, grade scale: A, B, C, D, E, FX, F.

Requirements for final grade approved master thesis and seminar presentation.

## **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.