



## Course syllabus

Faculty of Technology  
Department of Mathematics

4MA452 Matematik - projektkurs (liten), 7,5 högskolepoäng  
Mathematics - project course (small), 7.5 credits

### **Main field of study**

Mathematics

### **Subject Group**

Mathematics

### **Level of classification**

Second Level

### **Progression**

A1F

### **Date of Ratification**

Approved by Faculty of Technology 2014-10-03  
The course syllabus is valid from autumn semester 2015

### **Prerequisites**

English B. A bachelor degree in mathematics, physics, electrical engineering, computer science, economics or equivalent. In addition at least 60 credits in mathematics. The course Mathematical Modelling II, 4MA441, or equivalent.

## Objectives

The objective is to develop the student's understanding of mathematical modelling as preparation for the master thesis.

After completing the course, the student should be able to:

- write a mathematical proof (direction pure mathematics)
- carry out, individually or in a group, a project using mathematical modelling and together with the supervisor select a relevant model (applied direction)
- independently analyse, evaluate and report achieved results

## Content

The course contains

- scientific literature search
- other project activities including report writing and seminars following conventions in the mathematical community

## Type of Instruction

Supervision and seminars. Compulsary assignments may be given during the course.

## Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail (i.e. received the grade F).

Assessment is based on the student's written report and its defense.

## Course Evaluation

A course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The result of the course evaluation will be filed at the department.

## Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: 4MA152 Mathematics - project course (small), 7.5 credits

## Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

## Required Reading and Additional Study Material

The student selects suitable literature for the specific field of study in cooperation with the supervisor and the examiner.