# SF1660 Project in Mathematics I 1.5 credits

**Matematikprojekt I**

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

## Establishment

Course syllabus for SF1660 valid from Spring 2011

## Grading scale

P, F

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

The purpose of this course is to give opportunity for the students to apply their basic mathematical skills in an applications oriented project. After the course the student should be able to:

- explain how some basic concepts and methods from linear algebra and differential and integral calculus can be used in simple applications close to the education programme,
- set up, discuss and evaluate some mathematical models for applied processes that are relevant to the education programme,
- understand basic applications which are presented in mathematical language, and give oral and written presentation of own mathematical calculations and results.

## Course contents

Simple applications of basic linear algebra and differential and integral calculus. This may include, for example, applications of linear equations, eigenvalues and eigenvectors, linear differential equations with constant coefficients, optimization, integral calculus or basic vector analysis. The exact contents may vary.

## Examination

- PRO1 - Project, 1.5 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.

If the course is discontinued, students may request to be examined during the following two academic years.

PRO1 - Project, 1.5 credits, grade scale: P, F

## 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.