



Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

5MA11E Examensarbete på masternivå, 30 högskolepoäng
Master's Thesis, 30 credits

Main field of study

Mathematics

Subject Group

Mathematics

Level of classification

Second Level

Progression

A2E

Date of Ratification

Approved by Organisational Committee 2009-08-11

The course syllabus is valid from spring semester 2010

Prerequisites

A bachelor degree with mathematics as major subject or corresponding knowledge in mathematics. In addition at least 45 higher education credits on level A.

Expected learning outcomes

The major goal with the course is to develop the student's understanding of mathematical proofs or ability to apply his/her knowledge and skills on an applied problem using mathematical modelling.

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

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

Content

The course contains

- presentation of scientific literature search
- report writing following conventions in the mathematical community
- seminars including oral presentation.

Type of Instruction

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

Examination

The course is assessed with the grades Fail (U) or Pass (G).

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts. Assessment is based on the student's written report, presentation and defense of this. The student must also be an opponent to another student's submitted report.

Course Evaluation

After the course a written evaluation of the course will take place according to the University guidelines.

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.