Linnæus University

Course syllabus

Faculty Board of Science and Engineering

School of Computer Science, Physics and Mathematics

2MA190 Stor projektkurs i matematisk modellering, 15 högskolepoäng

2MA190 Extended project course in mathematical modelling, 15 credits

Main field of study
Mathematics

Subject Group
Mathematics

Level of classification
First Level

Progression
G2F

Date of Ratification
Approved by Organisational Committee 2009-12-01
The course syllabus is valid from autumn semester 2010

Prerequisites
Mathematics corresponding to 75 higher education credits of which at least 30 higher education credits are within the interval 31-60 higher education credits including the course Multivariate analysis, 7.5 higher education credits or corresponding and 7.5 higher education credits on Bachelor level.

Objectives

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:

- understand the elements of writing mathematical proofs
- 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:

- project work
- written report following conventions in the mathematical community.

Type of Instruction
Individual work under supervision

Examination
The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

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
Literature
The literature is selected in consultation with the supervisor