Linnæus University

Course syllabus

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

4MA141 Matematisk modellering 2, 7,5 högskolepoäng
Mathematical Modelling 2, 7.5 credits

Main field of study
Mathematics

Subject Group
Mathematics

Level of classification
Second Level

Progression
A1N

Date of Ratification
Approved by the Board of the School of Computer Science, Physics and Mathematics 2012-12-10

The course syllabus is valid from autumn semester 2013

Prerequisites
60 credits in Mathematics.

Objectives

The aim of the course is to improve the students knowledge about computational aids and mathematical modelling and a deeper knowledge in modelling techniques in a specific field.

After the course the students are expected to:

- understand the principles of mathematical modelling
- use different computational aids
- be able to analyze and evaluate obtained results
- know how to write reports in LaTeX and how to present their results orally.

Content

The course contains:

- literature study
- problem solving by mathematical modelling
- different mathematcial and statistical softwares
- the typesetting standard LaTeX
- report writing according to the demands of publicing within the mathematical field

of subject
- verbal presentations.

Type of Instruction
Teaching consists of lectures, seminars, laboratory work and tutoring.
Mandatory assignments can occur.

Examination
The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).
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 of student performance is made through written report or oral presentation.

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.

Required Reading and Additional Study Material
Required reading
The required reading is decided together with the supervisor and the examiner.