



Syllabus

MA4002.1 Mathematics, 3.0 credits

Matematik

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

11 October 2002

The version applies to students admitted from autumn 2003 to autumn 2009

The version is not a module version

Subjects

Mathematics/Applied Mathematics

Education cycle

First cycle

Modules

Title	Code	Credits
Single module	0101	3.0

Advanced study in the main field

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

Swedish

Prior knowledge

Admitted to the MSc in forestry programme.

Objectives

The goals of the course are to strengthen the students' college level mathematical skills and to impact some new mathematical subjects of importance for their university studies. The course is as far as possible related to mathematics within forestry, why the student should be trained in mathematical modelling of quantitative phenomena and also in applying the model analytically or numerically.

Content

The course includes the following matters:

- Elementary arithmetic, including use of the summation symbol.
- Co-ordinate systems and a limited part of analytic geometry (the straight line).
- Linear equation systems.
- Theory of functions, including differentiation and applications thereof, numerical integration, multivariate functions and differential equations.
- Matrices and elementary matrix algebra.

Focus is on definitions, understanding and application, why proofs of theorems and similar mathematical disciplines are omitted.

Implementation

Lectures 20 h

Exercises with instructor present 30 h

Own studies.

Examination

Requirements for examination

Written examinations, three short and one final.

One assignment (modelling and analysis)

Acceptance through aggregated written examinations. Accepted assignment.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.

- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Additional information

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Responsible department

Department of Forest Resource Management

Supplementary Information

Finalized by: Programnämnden skog och mark