



Course syllabus

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

1MD303 Matematikdidaktik – matematik och undervisning, 7,5
högskolepoäng

Mathematics and Teaching, 7.5 credits

Main field of study

Mathematics

Subject Group

Mathematics

Level of classification

First Level

Progression

GIN

Date of Ratification

Approved by Organisational Committee 2009-12-01

The course syllabus is valid from autumn semester 2010

Prerequisites

This course is open to students that have been accepted to the Teacher Training Programme and have at least passed Mathematics B or the equivalent. Admission to the single subject course requires general admission requirements as well as Ma B, alternatively a teacher's degree and Ma B or the equivalent.

Expected learning outcomes

Having completed the course the student is expected to:

- master basic elements in the fields arithmetic, algebra and geometry
- demonstrate an ability to analyse and critically deal with mathematical contents in the classroom.

Content

The course contents:

- mathematical and didactical approaches to numbers and the four rules of arithmetic, geometry and algebra
- the logical structure of mathematics and construction of mathematical theory.

Type of Instruction

Teaching consists of lectures, seminars and practical assignments. The student's active participation is an important part of the teaching, individually and in groups, which

requires attendance at seminars, assignments, and presentations.
This course is also offered as a distance tuition course.

Examination

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

On request, Swedish students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

The course is examined through oral and/or written presentations or exams during or after the course.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Other

Having completed the training the student will receive a degree certificate upon request from the Graduation Office at the Division of Student Affairs.

Students who receive a passing grade in the course may download a course certificate through the Student Portal. Otherwise they may request a course certificate from the school secretary.

Required Reading and Additional Study Material

Required reading

DFM, *Stenciler*, Linnæus University, current year. Pages ca 300.

Sollervall, H, *Tal och de fyra räknesätten*, Studentlitteratur, 2007. Pages 172 (172).