

**680406
MATB01**

Syllabus for Mathematics for Teachers 15 ECTS credits

1. Course details

Approved by the Education Committee of the Faculty of Sciences 01-03-2007. The syllabus is valid from 01-07-2007. The course is at the First cycle.

2. General information

The course is part of the main field of study in Mathematics at the Faculty of Science. The course is optional at the First cycle in a Bachelor's degree in Science. The course is also offered as a single subject course. The language of instruction is Swedish.

3. Learning outcomes

On completion of the course, the students shall:

- have developed the ability for mathematical communication orally and in writing,
- be familiar with areas of mathematics of particular relevance for upper secondary school.
- have a basis for further studies in mathematics and mathematical didactics.

4. Course content

Fundamental items from the school syllabus from a didactic viewpoint: the structure of the number system, elementary number theory, Euclidean geometry, history of mathematics including classical mathematical problems as well as the modern development of the subject, problem solving strategies in mathematics, contest problems in mathematics, special projects in mathematics.

5. Teaching and assessment

Teaching consists of lectures and group exercises. Compulsory project tasks occur during the course.

Examination takes the form of a written test and an oral examination at the end of the course.

Students who fail the ordinary tests will have an opportunity to take another test in close proximity to the ordinary test.

6. Grades

Students are awarded one of the following grades: Distinction, Pass or Fail.

7. Admission requirements

To be eligible for the course requires: Basic eligibility and courses corresponding to MATA11 Mathematics 1 alpha, 15 ECTS credits and MATA12 Mathematics 1 beta, 15 ECTS credits.

8. Literature

According to a list established by the department, available at least five weeks before the start of the course. See the web-page for Mathematics NF.

9. Further information

The course cannot be credited as part of a degree along with MAT224 Mathematics for Teachers1, 10p.