Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2007-03-01 to be valid from 2007-07-01, autumn semester 2007.

General Information

The course is an elective course for second-cycle studies for a Degree of Master of Science (120 credits) in mathematics.

Language of instruction: Swedish and English

Main field of studies | Depth of study relative to the degree requirements
Mathematics            | A1N, Second cycle, has only first-cycle course/s as entry requirements

Learning outcomes

The aim of the course is that the student on completion of the course should:

• have developed the ability to communicate mathematics in speech and in writing,
• be familiar with basic concepts and methods of number theory,
• have acquired basic knowledge for continued studies in number theory.

Course content

Classical theory of modulo arithmetic, quadratic reciprocity, quadratic forms and Diophantine approximation.
Course design
The teaching consists of lectures and seminars. Compulsory assignments may occur during the course.

Assessment
The examination consists of a written examination followed by an oral examination. The oral examination may only be taken by those students who passed the written examination. Students who fail the ordinary written examination are offered a resit examination shortly thereafter.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades
Marking scale: Fail, Pass, Pass with distinction.

Entry requirements
For admission to the course, English B is required as well as at least 60 credits in mathematics.

Further information
The course may not be included in degree together with MAT315 Number theory 5 credits.
Subcourses in MATM15, Mathematics: Number Theory

Applies from H07

0701 Examination, 7.5 hp
   Grading scale: Fail, Pass, Pass with distinction