



LUND
UNIVERSITY

Faculty of Science

MATM22, Mathematics: Specialised Course in Analytic Functions, 7.5 credits

Matematik: Fördjupningskurs till analytiska funktioner, 7,5 högskolepoäng

Second Cycle / Avancerad nivå

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: English and Swedish

Main field of studies

Mathematics

Depth of study relative to the degree requirements

A1F, Second cycle, has second-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 writing,
- had acquired advanced knowledge in a special area within complex analysis.

Course content

The course constitutes a specialisation and continuation of the course Analytic functions. Its contents are specified by the lecturer in consultation with the students. The course can e.g. treat one of the following fields:

- (i) Fourier and Laplace transform.
- (ii) Special functions
- (iii) Harmonic functions and conformal mappings

Course design

The teaching consists of lectures and seminars. Compulsory assignments may occur during the course.

Assessment

The examination consists of a written and/or oral examination. Students who fail the ordinary 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 and at least 75 credits in mathematics, including the equivalent of MATC11 Analytic functions, 15 credits, are required.

Further information

The course may not be included in degree together with MAT322 Advanced course to Analytic functions 5p.

Subcourses in MATM22, Mathematics: Specialised Course in Analytic Functions

Applies from H07

0701 Examination, 7,5 hp
Grading scale: Fail, Pass, Pass with distinction