



Faculty of Technology and Science
Mathematics

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Technology and Science on 11 December 2012, and is valid from the Spring semester of 2013 at Karlstad University. It replaces the former syllabus MAGC00 from 5 April 2012.

Course Code: MAGC00

Mathematics: Degree Project, 15.0 ECTS Credits

(Matematik, examensarbete, 15.0 Swedish credit points)

Degree Level: Bachelor

Progressive Specialisation: G2E (First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree proj. for B.A./B.Sc.)

Language of Instruction

The language of instruction is Swedish or English.

Prerequisites

Courses totalling 120 ECTS cr. At least 75 ECTS cr in Mathematics including at least 15 ECTS cr at the 61-90 ECTS credit level.

Major Field of Study

MAA (Mathematics)

Learning Outcomes

The aim of the course is to give students the opportunity to conclude their studies at Bachelor's level in Mathematics as a Major by independently carrying out a science project in a chosen area.

Upon completion of the course, the students should be able to

- search for and collect relevant information, critically evaluate its reliability and quality, and correctly interpret and refer to it,
- give an account of mathematical theories and methods in the chosen problem area,
- independently identify and formulate problems on the basis of a mathematical question and solve them within given time-limits,
- discuss and present problems and solutions orally and in writing, conforming to standard scientific practice in content, structure and language.

Content and Form of Instruction

The course is carried out in the project form.

The content of the course, i.e., the mathematical problem or problem field that is treated in the thesis, is chosen in consultation with the advisor.

Before the project is begun, the student must draw up a project description for the examiner's approval.

Reading List

See separate document.

Examination

Assessment is based on an individually written report and oral presentation at a seminar. The project description approved by the examiner is included in the assessment.

Grades

One of the grades U (Fail), G (Pass), or VG (Distinction) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

The local regulations for studies at the Bachelor's and Master's levels at Karlstad University stipulate the obligations and rights of students and staff.

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