



Faculty of Health, Science and Technology  
Mathematics

# Syllabus

## Mathematics: Degree Project

**Course Code:** MAGC00

**Course Title:** Mathematics: Degree Project  
*Matematik, examensarbete*

**Credits:** 15

**Degree Level:** Undergraduate level

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

**Major Field of Study:**

MAA (Mathematics)

**Course Approval**

The syllabus was approved by the Faculty of Health, Science and Technology 2015-12-03, and is valid from the Autumn semester 2016 at Karlstad University.

**Prerequisites**

Completed courses totalling 120 ECTS cr with at least 75 ECTS cr in Mathematics, including at least 15 ECTS cr at the 61-90 credit level, or completed courses in Mathematics totalling at least 105 ECTS cr, including at least 15 ECTS cr at the 61-90 credit level.

**Learning Outcomes**

The aim of the course is to give students the opportunity to meet the requirements for a Bachelor's degree with a Major in Mathematics 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 disciplinary practice in content, structure and language, and with consideration of relevant links to current research and possible ethical and societal aspects.

**Content**

The course is an independent degree project presented by an individually written report and an oral presentation at a seminar.

The content of the course, i.e., the mathematical problem or problem area 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 an individual oral presentation at a seminar. The completion of the project and project description approved by the examiner are 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 evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

### **Course Certificate**

A course certificate will be provided upon request.

### **Additional information**

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