



Faculty of Health, Science and Technology
Mathematics

Syllabus

Practical Placement in Mathematics

Course Code:	MAAD27
Course Title:	Practical Placement in Mathematics <i>Praktikkurs i matematik</i>
Credits:	7.5
Degree Level:	Master's level
Progressive Specialisation:	Second cycle, has second-cycle course/s as entry requirements (A1F)

Major Field of Study:
MAA (Mathematics)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2017-09-13, and is valid from the Spring semester 2018 at Karlstad University.

Prerequisites

Bachelor's Degree in Mathematics or related field. Completed 30 ECTS credits in Mathematics at Master's level, or equivalent.

Learning Outcomes

The aim of the course is to combine the use of mathematical methods with the tools of numerical analysis or computer science in a project related to industry or public institutions. Students are expected to contribute in the form of a publishable article, technical report or software, for example, or to develop an idea for a Master's thesis.

Upon completion of the course, students should be able to

- plan and carry out a project under supervision,
- identify their need of further knowledge and develop their skills,
- use modern computing and simulation tools to translate theoretical knowledge into practical skills,
- and
- present a project orally and in writing.

Content

Students are expected to use theoretical knowledge in a chosen area of applied mathematics to complete a project carried out in conjunction with a company or research project.

The project is to include both theoretical and practical tasks. A workplace supervisor is appointed. If the project is carried out at a company, two supervisors, one at the company and one at the university, are appointed,

The course is concluded with a report submitted to the course convener and an oral presentation.

Students are responsible for arranging their placement themselves in consultation with the convener. A description of the tasks is submitted to the course convener for approval in advance.

Reading List

See separate document.

Examination

Assessment is based on a written report and oral presentation.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) 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.