



FSF3569 Mathematics Projects in School 7.5 credits

Matematikprojekt i skolan

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for FSF3569 valid from Autumn 2017

Grading scale

Education cycle

Third cycle

Specific prerequisites

A Master degree including at least 30 university credits (hp) in mathematics.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

Upon completion of the course, the student will:

- be able to construct projects and course materials that can be used in the mathematics education in school.
- be able to develop and problematize teaching based on their practical experience of school work.
- be able to develop learning activities and plan for these in collaboration between university and elementary school/gymnasium.

Course contents

The doctoral students construct in dialogue with the teacher in school projects and course material that are used in school. The doctoral students are a support for the teacher during the students' work and reporting of the projects.

Disposition

- The course begins with contact and planning together with the teacher at the elementary school/gymnasium,
- the teacher introduces the projects in the syllabus according to the school curriculum,
- the doctoral students construct the student projects in detail,
- the students, with the assistance of the PhD students, carry out laboratory work based on the formulated projects,
- the students present their projects during for example a theme day,
- the doctoral students compile and evaluate the results of the projects.

Course literature

The course literature is selected by the doctoral student in consultation with the examiner and the teacher at the school

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Documentation of the projects and related teaching materials together with the evaluation of the projects has to be provided to the examiner.

Other requirements for final grade

Approved documentation of the projects.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.