# FDD3462 Computer Science Education Research 7.5 credits

## Datalogididaktik

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 FDD3462 valid from Spring 2019

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

After a passed course, the student should be able to

- explain basic concepts about how students learn computer science as well as about teaching the subject,

- account for different research methods in computer science education,

- use concepts and theories and apply research methods in some subarea of computer science education

in order to

- be able to carry out own research in computer science education.

# Course contents

Introduction to computer science education: Learning in computer science. Research about learning in computer science.

Current research subjects: Introductory programming. Gender issues in computer science. Critical theory. Quantitative and qualitative research.

Individual project.

# Examination

- EXA1 - Examination, 7.5 credits, grading scale: P, F

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.

# Other requirements for final grade

Home assignments, seminar and individual project.

# 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.