



DA1700 Tutoring, Teaching and Learning in Computer Science Education 3.0 credits

Handledning, undervisning och lärande i datalogiutbildning

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

On 2019-10-15, the Head of School of EECS has decided to establish this official course syllabus to apply from the spring semester 2021 (registration number J-2019-2093).

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed course in basic computer science equivalent to DD1338, DD1320, DD1321 or DD1327.

Language of instruction

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

Intended learning outcomes

After passing the course, the student should be able to

- plan, carry out and evaluate learning activities taking stated intended learning outcomes and computer science education theory into account
- respond to students with empathy and respect in accordance with regulations for equality and fundamental values
- assess students' abilities, learning and development towards stated intended learning outcomes and in a constructive way communicate the assessment to the students

in order to

- develop as a teaching assistant in programming and computer science courses
- be able to tutor and teach in professional life
- obtain qualifications needed to do a degree project with specialisation in computer science education.

Course contents

- Introduction to computer science education theory and learning in computer science. Research on learning in computer science.
- Legal certainty and legal security. Conduct towards students, equality and fairness in teaching context.
- Constructive alignment. Outcome based teaching and examination.
- Planning of teaching. Presentation techniques. Tutoring techniques.
- Methods and tools in computer science teaching.
- Placement as teaching assistant/lab assistant in some course in computer science.

Examination

- PRA1 - Practical training, 1.0 credits, grading scale: P, F
- SEM1 - Seminar assignments, 2.0 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.

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.