DD2395 Computer Security 6.0 credits

Datasäkerhet

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 DD2395 valid from Autumn 2009

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Computer Science and Engineering

Specific prerequisites

Single course students: 90 university credits including 45 university credits in Mathematics or Information Technology. English B, or equivalent.

Language of instruction

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

Intended learning outcomes

The goal is that the students gain

- awareness of computer security
- knowledge of available tools
- knowledge of terminology

so that they

- will be aware of possible threats
- can counter threats using existing tools
- can develop secure software.

Course contents

- security conscious programming and security holes
- introduction to cryptography
- security mechanisms in conventional operating systems
- security models
- overview of network security
- viruses, worms, and trojans
- administrative, legal, and ethical aspects.

Course literature

Not decided yet. Will be announced at least 4 weeks before course start at course web page.

Examination

- LAB1 - Laboratory Work, 3.0 credits, grading scale: P, F
- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, 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.

In this course all the regulations of the code of honor at the School of Computer science and Communication apply, see: http://www.kth.se/csc/student/hederskodex/1.17237?l=en_UK.

Other requirements for final grade

Laboratory assignments (LAB1; 3 university credits)
Examination (TEN1; 3 university credits).

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.