



Course syllabus

Faculty Board of Science and Engineering
School of Computer Science, Physics and Mathematics

4IK014 Säkerhetstänkande, 7,5 högskolepoäng
Security Thinking, 7.5 credits

Main field of study

Information Systems

Subject Group

Informatics/Computer and Systems Sciences

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by Organisational Committee 2009-09-08

The course syllabus is valid from spring semester 2010

Prerequisites

30 higher education credits within the interval 31-60 higher education credits in Informatics or equivalent, including a Bachelor Thesis of 15 higher education credits.

Expected learning outcomes

After completing the course, the student should have knowledge and higher awareness of security and safety in relation to development, maintenance, and usage of information systems.

Content

The course contains:

- computers and risks
- the human role in automated systems
- foundations for secure systems
- safety organization
- probabilities and estimation of risks
- security design
- secure user-interfaces
- verification of security

Type of Instruction

Teaching methods consists of lectures, seminars, and exercises. Exercises are performed as independent or group work. Participation in some parts of the course is mandatory.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Assessments of student performance consist of written exams and/or oral presentations and/or performing mandatory assignments. Main form of examination is determined at course start. For students who have not been approved at the regular examination a new date, close to the regular examination date, will be arranged for the review.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Required Reading and Additional Study Material

Required reading

Wylder J., *Strategic Information Security*, Auerbach Publications, 2003. Pages 216 (228).

Layton Sr T.P., *Information Security Awareness*, Authorhouse, 2005. Pages 134 (148).

Informatics, *Kompendium*. Pages 100.