

Syllabus

for course at advanced level

Introduction to Information Security
Introduktion till informationssäkerhet

7.5 Higher Education
Credits
7.5 ECTS credits

Course code:	ML470C
Valid from:	Autumn 2018
Date of approval:	2015-03-26
Changed:	2018-04-18
Department	Department of Computer and Systems Sciences
Main field:	Computer and Systems Sciences
Specialisation:	A1N - Second cycle, has only first-cycle course/s as entry requirements

Decision

This syllabus was approved by the Head of the Department 2015-03-26.
This syllabus was updated 2018-04-18.

Prerequisites and special admittance requirements

Admission to the Master's programme in Information Security or 90 ECTS in Computer and Systems Sciences.

Course structure

Examination code	Name	Higher Education Credits
470A	Introduction to Information Security, written exam	6
470B	Introduction to Information Security, assignment	1.5
470I	Introduction to Information Security, assignment	1.5
470T	Introduction to Information Security, exam	6

Course content

This is first and foremost an introductory course that prepares the student for more advanced studies within the area of information and digital security. The course therefore offers a conceptual framework for the subject area as well as familiarity with the terminology that is of importance for the more specialised security and forensics courses that can be read at the department.

The course is oriented more towards theoretical than applied studies which means that the student can expect to discover productive means to reason within the subject matter rather than how to secure specific systems. Lectures and classroom sessions support the students' studies into those areas of the course material that are generally assumed to be more challenging and demanding. Practical exercises are included as means to grounding understanding in practical experience as well as to illustrating and demonstrating relevant concepts.

Learning outcomes

After completing the course the student will be able to understand and communicate his/her understanding of:

- Major security areas, the fundamental and applied aspects and perspectives for information and digital security.
- Information and digital security terminology, models and principles.

- Currently relevant information and digital security issues such as prevalent threats and solutions and ongoing research.

Education

The language of instruction is English.

The teaching and learning activities in the course are: lectures, workshops, practical exercises and seminars.

Some specific seminars and workshops require mandatory attendance.

Forms of examination

a. The course is examined through an assignment and a written examination task.

The assignment must be completed and submitted by the deadlines listed in the course schedule.

b. The final grading of the course is based on the following grading scale related to the learning outcomes of the course: A = Excellent, B = Very Good, C = Good, D = Satisfactory, E = Sufficient, Fx = Fail, F = Fail.

c. The grading criteria are communicated to the students at the start of the course.

d. In order to complete the whole course segment the student must obtain at least grade E (or P with Pass/Fail grades) in all course components/examinations.

If there are multiple examinations with grading A to F, the average of the grades is calculated by converting letters into numbers in the following way: A = 4, B = 3, C = 2, D = 1, E = 0. The average is calculated relatively to the number of credits of the various components/examinations and the number of credits of the course. The final grade of the course is thus a weighted average of the course components/examinations. If the average is in between two grades, 2/3 parts of the higher grade are required in order to round up the average.

e. In addition the following regulations also apply:

- Students who obtain grade Fx in a written examination are allowed to complete a supplementary assignment in order to elevate the grade to E. The examiner informs the concerned students when the results of the written examination are published. The supplementary assignment has to be submitted within a given deadline and can only be utilised to elevate the grade of the actual examination task.

- Students who obtained grade E in an examination task are not allowed to re-write the examination or resubmit the assignment in order to obtain a higher grade.

- Students who have failed the same examination task twice are entitled to have another examiner appointed, unless there are special reasons to the contrary.

Interim

When a course is discontinued, or its contents are substantially altered, the following applies:

- Failed examination tasks are replaced with other similar examination tasks according to a specific plan.

- If no similar examination tasks can be provided, at least three examination opportunities per examination task should be offered during a period of at least three terms from the date of the decision. After this period, no examinations should be carried out on the course.

Limitations

This course may not be included in a degree together with the course IB431C Principles of Computer Security.

Required reading

Information about course literature is available on the department's website - www.dsv.su.se - at least two months before the start of the course.