# IV1013 Introduction to Computer Security 7.5 credits

## Introduktion till datasäkerhet

This is a translation of the Swedish, legally binding, course syllabus.

## Establishment

Course syllabus for IV1013 valid from Spring 2016

## Grading scale

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

## Education cycle

First cycle

## Main field of study

Technology

## Specific prerequisites

For “single course” students:

- Completed documented upper secondary education incl documented proficiency in English and
- university studies corresponding to 60 credits (hp)/2 years of study.

## Language of instruction

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

## Intended learning outcomes

Having completed this course the student will be able to

- communicate knowledge of the concepts, models and terms commonly used in the area of ICT security
- identify and productively experiment with currently relevant ICT security issues
- evaluate factors that influence the security of systems.

## Course contents

This course is given in Swedish.

The course includes:

- Introduction to information security
- Security Models and Policies
- Cryptography overview
- Security Architectures, incl. Identification, authentication, access control.
- Malicious Software, incl. Viruses, worms, trojan horses, etc.
- Program Security
- Security Tools
- Assurance
- Law and ethics
- Privacy and Privacy Enhancement Tools

## Disposition

Lectures and Practical Assignments.

## Course literature

Goodrich, Tamassia: Introduction to Computer Securi-
ty: Pearson New International Edition - See more
at: http://catalogue.pearsoned.co.uk/educator/product/Introduction-to-Computer-Security-Pearson-New-International-Edition/9781292025407.page#sthash.aaLrqfj7.dpuf

## Examination

- UPG1 - Assignment, 1.5 credits, grading scale: P, F
- TENA - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- LABA - Laboratory Assignments, 3.0 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.

If the course is discontinued, students may request to be examined during the following two academic years.

## 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.