

COURSE SYLLABUS

Cybersecurity Overview, 7.5 credits*Översiktskurs cybersäkerhet, 7.5 högskolepoäng*

Course Code:	TCSR24	Education Cycle:	Second-cycle level
Confirmed:	May 15, 2025	Disciplinary domain:	Technology
Valid From:	Aug 31, 2026	Subject group:	Computer Technology
		Specialised in:	A1N Second cycle, has only first-cycle course/s as entry requirements
		Main field of study:	Computer Science

Intended Learning Outcomes (ILO)

On completion of the course the student shall:

Knowledge and understanding

- display knowledge of the overall subject of cybersecurity and related areas
- display knowledge of the definitions, terminology, and concepts of cybersecurity
- demonstrate comprehension of activities in the risk management process
- display knowledge of threats and countermeasures
- display knowledge of key standards and frameworks for cybersecurity operations

Skills and abilities

- demonstrate the ability to explain similarities and differences between cybersecurity concepts

Judgement and approach

- demonstrate the ability to suggest risk treatment
- demonstrate the ability to perform a risk assessment

Content

The course is intended to give a holistic view of cybersecurity and its relation to other subject areas, such as information security and privacy. An overview of general and industry-specific standards and frameworks within the area is given as a frame of reference. In addition, the course will present how to work with security in practice by providing an outline of information security management and its associated activities, such as risk assessment and information classification. Finally, the course introduces key standards and frameworks for cybersecurity operations.

The course includes the following elements:

- Overview of the cyber and information security area: Focus on definitions, concepts, and terminology
- Standards and frameworks within the area
- Cybersecurity in a socio-technical context
- Activities in the management of cybersecurity, e.g., risk assessment
- Key standards and frameworks for cybersecurity operations, Security Operations Centre (SOC) concepts, blue teaming, etc.

Type of instruction

The teaching in the course consists mainly of lectures, assignments, tutoring, and seminars.

Language of instruction is in English.

Entry requirements

The applicant must hold a minimum of a bachelor's degree (i.e., the equivalent of 180 ECTS credits at an accredited university) with at least 90 credits in Computer Science, Informatics, Information Systems, Computer Engineering, or the equivalent. Proof of English proficiency is required.

Examination and grades

The course is graded 5, 4, 3 or U.

Registration of examination:

Name of the Test	Value	Grading
Examination ¹	5 credits	5/4/3/U
Assignment	2.5 credits	G/U

¹Determines the final grade of the course, which is issued only when all course units have been passed.

Course literature

Please note that changes may be made to the reading list up until eight weeks before the start of the course.

Titel: ISC2 CISSP Certified Information Systems Security Professional Official Study Guide, 10th Edition

Författare: Mike Chapple, James Michael Stewart, Darril Gibson

Förlag: Wiley

ISBN: 978-1-394-25469-9