

**SYLLABUS**

**STUDY YEAR 2019/2020**

# **Master Programme in Information Security**

## **Enrollment semester Autumn 2018**

**DATE**

**2018-10-24**

**DECISION MAKER**

**Dekan, Filosofiska fakultetsnämnden**

## Programme content and structure

The program consists of a total of 120 credits out of which 90 credits are compulsory courses at advanced level in the area of Information Security. The final thesis constitutes 30 credits out of the total of 90 credits at advanced level. The program is available by distance and on campus.

During the first year of the programme, you will take courses that focus on the core concepts of information security and also allow you to apply your knowledge in a project course, which concludes the first academic year. In the project course you can, for example, choose to work together with companies and organizations both nationally and internationally. Courses in the second year broaden your knowledge in the field and prepare for the final thesis. The programme will give you useful skills demanded by employers that operate on the global market.

There are two electable courses within the program where the student can choose between a range of in-depth courses within information security and computer science. There is also the option to graduate after one year, with a one year master degree, after consultation with the course director.

Swedish for beginners is offered to overseas students. The course is not included in the degree, and is read in addition to the compulsory courses.

### Credits

120 credits

### Degree

- Degree of Master of Science (120 credits) - Major; Information Security

## Entry requirements

A Bachelor's degree with a minimum of 180 ECTS with at least 60 ECTS in the area of computer science, systems science, information technology or a closely related area. The degree must include a final thesis of 15 ECTS.

Documented skills in English language.

### Selection

The selection procedure is based on academic qualifications, quality and quantity aspects

#### Selection group

Academic: 100%

## Compulsory courses

### Compulsory courses 75 credits

Course code	Course	Cr	Level	Comment
A0004N	Information Security	7.5	Grundnivå	
A7001E	Strategic security and IT-management	7.5	Avancerad nivå	
A7005E	Client security architecture	7.5	Avancerad nivå	
A7006E	Server security architecture	7.5	Avancerad nivå	
A7006N	Scientific Methods	7.5	Avancerad nivå	
A7007E	Critical Infrastructure Protection	7.5	Avancerad nivå	
A7009E	IS-project	15	Avancerad nivå	
A7011N	Internet Security	7.5	Avancerad nivå	
A7012E	Information Security Risk Management	7.5	Avancerad nivå	

### Master thesis 30 credits

Course code	Course	Cr	Level	Comment
A7009N	Master Thesis	30	Avancerad nivå	

### Electable courses 15 credits

Selective space is 15 credits. It is mandatory to select elective courses up to the given number of credits. The given number of credits of elective courses listed must be met for degree.

Course code	Course	Cr	Level	Comment
A0001E	Security Architecture	7.5	Grundnivå	Selectable
A7002E	Trends in IS and Information Security	7.5	Avancerad nivå	Selectable
D0025E	Data Mining	7.5	Grundnivå	Selectable
D7043E	Advanced Data Mining	7.5	Avancerad nivå	Selectable
D7044E	Business Intelligence	7.5	Avancerad nivå	Selectable

### Course offered outside the obligatory courses - not compulsory - For non Scandinavian students

Course code	Course	Cr	Level	Comment
S0046P	Swedish for International Students 1	3	Grundnivå	Selectable

## Study schedule

### Year of study 1 Enrollment semester Autumn 2018, Is offered in 2018/2019

Study-period	Course code	Course	Cr	Comment
1	A0004N	Information Security	7.5	
1	A7005E	Client security architecture	7.5	
1	S0046P	Swedish for International Students 1	3	Selectable
2	A7006E	Server security architecture	7.5	
2	A7011N	Internet Security	7.5	
3	A7001E	Strategic security and IT-management	7.5	
3	A7007E	Critical Infrastructure Protection	7.5	
4	A7009E	IS-project	15	

### Year of study 2 Enrollment semester Autumn 2018, Is offered in 2019/2020

Study-period	Course code	Course	Cr	Comment
1	A7002E	Trends in IS and Information Security	7.5	Selectable
1	A7012E	Information Security Risk Management	7.5	
1	D0025E	Data Mining	7.5	Selectable
1	D7044E	Business Intelligence	7.5	Selectable
2	A0001E	Security Architecture	7.5	Selectable
2	A7006N	Scientific Methods	7.5	
2	D7043E	Advanced Data Mining	7.5	Selectable
3-4	A7009N	Master Thesis	30	Entry requirements