



Programme syllabus

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

Informationssystem, magisterprogram, 60 högskolepoäng
Information Systems, Master Programme, 60 credits

Level

Second Level

Establishment of Programme

Established by Organisational Committee 2009-03-26

Date of Ratification

Approved by Committee for First and Second Cycle under the Faculty Board of Science and Engineering 2009-03-26

The programme syllabus is valid from autumn semester 2010

Revised 2012-02-24

Prerequisites

General entry requirements for second-cycle studies and specific entry requirements:

- English A/5 or the equivalent.

Description of Programme

The objective of this programme is to provide students with deeper knowledge of Information Systems Science. The programme also provides students with extended knowledge of development, implementation, integration and utilisation of information systems in all types of operations and organisations as well as preparing students for postgraduate studies in Informatics.

Objectives

Knowledge and understanding

For a Degree of Master (One Year) students must

- demonstrate knowledge and understanding in their main field of study, including both a broad command of the field and deeper knowledge of certain parts of the field, together with insight into current research and development work; and
- demonstrate deeper methodological knowledge in their main field of study.

Skills and abilities

For a Degree of Master (One Year) students must

- demonstrate an ability to integrate knowledge and to analyse, assess and deal with complex phenomena, issues and situations, even when limited information is available;
- demonstrate an ability to independently identify and formulate issues and to plan and, using appropriate methods, carry out advanced tasks within specified time limits;
- demonstrate an ability to clearly present and discuss their conclusions and the knowledge and arguments behind them, in dialogue with different groups, orally and in

writing; and

- demonstrate the skill required to participate in research and development work or to work in other advanced contexts.

Judgement and approach

For a Degree of Master (One Year) students must

- demonstrate an ability to make assessments in their main field of study, taking into account relevant scientific, social and ethical aspects, and demonstrate an awareness of ethical aspects of research and development work;
- demonstrate insight into the potential and limitations of science, its role in society and people's responsibility for how it is used; and
- demonstrate an ability to identify their need of further knowledge and to take responsibility for developing their knowledge.

Programme specific objectives

Knowledge and understanding

The student should have the knowledge to describe and analyse organisations and their needs for development as regards to information systems as well as prepare for changes in the working life.

Skills and abilities

The student should be able to specify the information needs in the organisations and design and evaluate system solutions as well as assess knowledge on a scientific level.

Judgement and approach

The student should demonstrate a general view on development and utilisation of technology in organisations and the consequences of this.

Content

Programme Overview

The main area of the training is Information Systems Science. A programme coordinator has the overall responsibility of the programme.

This programme consists of 60 credits, 1 year's full time studies.

Students are provided with in-depth studies of information systems on an advanced level of Information Systems Science. The in-depth studies may be oriented towards applied areas such as organisational development and information logistics. The programme ends with a degree project comprised of 15 credits.

The programme includes studies to prepare students for the working life as well as for preparatory postgraduate studies. This is achieved by the introductory parts of the programme are integrated with the preparatory postgraduate master education (2 years).

Programme Courses

Specialization in
Business and Organisation Development 60
credits

Year 1

Scientific Method and Theory 7.5 credits, A1N*

Knowledge about different important problems and schools in scientific theory and scientific method.

Change and knowledge management 15 credits, A1N*
Theories and methods used for planning and evaluation knowledge management processes and supporting systems for such activities.

Introduction to Informatics 7.5 credits, A1N*
The aim of this course is to offer student deeper knowledge and orientation in the different directions in field of informatics.

Ethics and professions in IT 7.5 credits, A1N*
Knowledge about how to professionally approach information technology and what it means to have an ethical approach to IT.

E-business 7.5 credits, A1N*
Development of business models for planning and design of E-business for an organisation.

Degree project 15 credits A1E*

Specialization in
Information Logistics 60 credits

Year 1

Scientific Method and Theory 7.5 credits, A1N*
Knowledge about different important problems and schools in scientific theory and scientific method.

Change and knowledge management 15 credits, A1N*
Theories and methods used for planning and evaluation knowledge management processes and supporting systems for such activities.

Information Logistics Implementation 7.5 credits, A1N*
Models and theories for the implementation of information logistics solutions.

Elective courses, 15 credits

Degree Project 15 credits, A1E*

*Course in the main subject Informatics. The courses within the programme may change places.

Work Experience

Contacts with the surrounding world and future labour market are introduced in several different ways. An important component is the programme board for the programme which holds representatives of the industry. The programme board works together with the programme board for the master programme in information science and the focus of the board is to look at the quality, development and relevance of the programme. Some courses also include assignments that are connected to information and communication technology (ICT).

Contacts with the outside world are mainly established through course projects and the concluding degree project.

Studies abroad

Studies abroad can be pursued on the initiative of the student. The studies are preferably made within the exchange programmes of the University. Confirmation that individual courses abroad can be included within the Master's Programme should be obtained in advance. Timing of studies abroad is made in consultation with programme coordinator.

Scope of the programme

For a Master's programme with a large percentage of international students, diversity

and internationalization are important aspects. Many of questions are concerned with the future work role, typically an IT consultant, which is in focus throughout the programme. Work ethics and sustainability are discussed in special course, Ethics and Professions in IT.

Quality Development

This programme is consistently evaluated on a yearly basis through written and verbal evaluation, performed by teachers and students. Discussion with course participants and outside representatives will also provide information on student opportunities for employment. Each course also includes a course evaluation. All evaluations are handled in meetings of the informatics subject group, for continuous development of programme quality. Summaries of course and programme evaluations are available at the school.

Degree Certificate

After completing programme studies, corresponding to the requirements expressed in the Higher Education Ordinance degree order as well as Linnaeus University degree order, the student may apply for a degree. Those who have completed Master Programme in Information System, 60 higher education credits, may obtain the following degree:

Magisterexamen med inriktning mot affärs- och verksamhetsutveckling
Huvudområde: Informatik

*Master (60 credits) with specialisation in Information Logistics.
Main field of study: Informatics*

The degree certificate is bilingual (Swedish/English). This certificate is also complemented with a Diploma Supplement (in English).

Other Information

The degree project course is only open to students who have completed the course in scientific theory and method. This is regulated through the prerequisites for the degree project.