



## Programme syllabus

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

Informationslogistik, magisterprogram, 60 högskolepoäng  
Information Logistics Master Programme, 60 credits

### **Level**

Second Level

### **Establishment of Programme**

Established by Organisational Committee 2009-03-26

### **Date of Ratification**

Approved by Organisational Committee 2009-09-15  
The programme syllabus is valid from autumn semester 2010

### **Prerequisites**

Basic eligibility for second level studies as well as special eligibility:

- Swedish B and English A or the equivalent.

## Description of Programme

The technological development during the twentieth century has increased the possibilities of information and also pushed up the tempo. The need to access right information at the right moment and also to be sure that the information is comprehensible is more urgent than ever before. In this development, efficient information flows play an increasingly important role, including various processes within production, distribution, knowledge management, healthcare and business. The underlying information logistics is the keystone, both in private businesses and in public organizations.

Both the manufacturing industry and the service sector are complex systems, where several areas of competence, units and businesses/organizations work independently at the same time as they also influence each other. The mutual goal is to produce good quality products/services and to distribute these in an efficient way. This requires sufficient information, needs analysis, joint language, compatible systems, secure information transferring, strategic evaluation and, most importantly, coordination beyond the existing boundaries.

The situation is the same in the health care sector. The mutual goals are good health care that is produced and distributed in an efficient way. Therefore, even the requirements on the information management are the same as in the business sector.

Information logistics is the discipline that offers a process oriented and logistic approach on change management as well as production, storage and distribution of information. This means that the right person gets the right information at the right moment in the

right way, and that the price and quality of the information are correct. Information logistics also includes the task to structure the information management process and to make it more efficient within the same organization as well as between organizations. Skills within information logistics will have a key role when the total information flow is optimized.

## 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 broad knowledge in the field and substantially deeper knowledge of certain parts of the field, together with deeper 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 critically and systematically integrate knowledge and to analyse, assess and deal with complex phenomena, issues and situations, even when limited information is available;
- demonstrate an ability to critically, independently and creatively identify and formulate issues and to plan and, using appropriate methods, carry out advanced tasks within specified time limits, so as to contribute to the development of knowledge and to evaluate this work;
- 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, in national and international contexts; and
- demonstrate the skill required to participate in research and development work or to work independently 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 be able to make independent decisions using critical approach, and also to have the knowledge to describe and analyze organizations and their needs for development of information systems. What is more, the student should be prepared to manage changes in the working life.

### *Skills and abilities*

The student should be able to specify the information logistics needs of the organization, and to independently identify, formulate and solve problems. The student should be able to search and assess scientific knowledge.

### *Judgement and approach*

The student should be able to demonstrate a general understanding of development and

utilisation of technology in organizations, as well as the consequences of these appliances. The student should be able to plan and complete projects in order to develop information logistical systems. Finally, the students should keep their subject knowledge up-to-date, as well as to be able to communicate with persons that do not possess specialist knowledge in the subject area.

## Content

### *Organization*

The programme is conducted as co-operation between Linnaeus University, University of Halmstad and International Business School in Jönköping.

### *Programme overview*

The practical parts of the courses and training that is included within the programme should mainly be conducted in co-operation with businesses and health care.

### *Programme Courses*

#### Term 1

Change and Knowledge Management, 15 credits, A1N\*

#### Term 2

Strategic Information Management, 7,5 credits, A1N\*

and

Supply Chain Management, 7,5 credits, A1N\*

or

Health Care Logistics, 7,5 credits, G1N\*

#### Term 3

Information Provision in Processes, 7,5 credits, A1N\*

or

Information Provision in Health Care, 7,5 credits, A1N\*

and

Information Systems methodology, 7,5 credits, A1N\*

#### Term 4

Degree Project at Master level, 15 credits, A1E\*

\*Courses within the main subject of Information Logistics

### *Work Experience*

Both private businesses and the public sector have influence on the programme content and its organization, this is mainly coordinated by the Centrum of Information Logistics (CIL).

CIL has an established system for exchange with businesses and public sector, this is called Knowledge Exchange Program. This refers to that partner businesses have access to CIL's knowledge resources, and at the same time students and researchers have access to the knowledge and experiences that are generated in the real life applications. The exchange will mainly take place at seminars and workshops, during the assignments that students complete in cooperation with their partner businesses and also by conducting specific research and development projects.

In the programme, the combination of theory and practice is crucial, and the students will complete several projects at their workplace or at a partner business that is connected to CIL.

### *Studies Abroad*

The programme allows for study abroad and these studies are planned in cooperation with programme coordinator.

### *Scope of the Programme*

Whenever this is possible, the courses within the programme take into account issues that are related to sustainable development, gender and diversity, as well as ethical issues.

### Quality Development

Programme evaluations are carried out each year using written surveys and interviews. Discussions with business representatives give feedback about the employability of the students.

For each course in the programme there is also an evaluation.

### Degree Certificate

Those students who have successfully completed the programme can apply for a degree and receive the following degree:

Filosofie magisterexamen i informatik med inriktning mot informationslogistik.

Huvudområde: Informatik

Master of Science in Information Logistics

Main field of study: Informatics

The degree certificate is bilingual (in Swedish/English). The Degree Certificate is accompanied by a Diploma Supplement (in English).