Education plan

for

Master's Programme in Computer and Systems Sciences	**60.0 Higher Education Credits**
Magisterprogram i data- och systemvetenskap	**60.0 ECTS credits**

Programme code:	SDSVM
Valid from:	Autumn 2016
Date of approval:	2010-09-08
Changed:	2015-09-18
Department:	Department of Computer and Systems Sciences

Decision

This programme syllabus was approved by the Social Sciences Faculty Board 2010-09-08. Revised 2015-10-13

Prerequisites and special admittance requirements

A Bachelor degree or a degree equal to 180 ECTS. A minimum of 90 ECTS within computer and systems sciences (e.g., computer science, systems science, informatics, information systems etc.)

Language requirements: English B or the equivalent

Programme structure

The first term consists of advanced compulsory course in Research Methodology for Computer and Systems Sciences and three elective courses. The elective courses are chosen from a list of elective courses in Computer and Systems Sciences, provided by the department. The list is approved by the director of studies.

During the second term the student writes the master thesis (15 credits) and chooses two elective courses that are aimed to both deepen and broaden knowledge within Computer and Systems Sciences. The elective courses are chosen from a list of elective courses in Computer and Systems Sciences. The list is provided by the department and approved by the director of studies.

Goals

In addition to the general learning goals stated in chapter 1, paragraph 9 of the Swedish Higher Education Act, the following goals according to Higher Education Ordinance are applied:

Knowledge and Understanding
For a Degree of Master (60 credits) the student shall

- demonstrate knowledge and understanding in the main field of study, including both an overview of the field and specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- demonstrate specialised methodological knowledge in the main field of study

Competences and skills
For a Degree of Master (60 credits) the student shall

- demonstrate the ability to integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues autonomously as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames
- demonstrate the ability to clearly report and discuss both orally and in writing, own conclusions and the knowledge and argumentation which they are based on, in dialogue with different audiences in national and international contexts
- demonstrate such skills that are required either for participation in research and development work or for conducting autonomous work within other qualified areas of activities

Judgement and approach
For a Degree of Master (60 credits) the student shall

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects of research and development work
- demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the personal needs for further knowledge and take responsibility for own continuous learning.

Courses
First semester
Scientific Communication and Research Methodology, 7,5 credits
Tree elective courses (7,5 credits each) from a list provided by the department

Second semester
Master Thesis in Computer and Systems Sciences, 15 credits
Two elective courses (7,5 credits each) from a list provided by the department

All courses that are offered within the programme are in Computer and Systems Sciences.

Degree
The programme leads to a Degree of Master of Science (60 credits) in the main field of study: Computer and Systems Sciences.

Misc
Limitations

A Degree of Master is awarded after the student has completed the courses required to gain 60 credits, of which at least 45 credits of second cycle courses (including master thesis 15 credits)

To write the Master Thesis in Computer and Systems Sciences (15 credits) the student should have completed a minimum of 22,5 credits within the programme, including the course Scientific Communication and Research Methodology, 7,5 credits.

When the programme syllabus has expired, the student has the right to complete the education according to the present curriculum during a settlement period comprising the programme's nominal duration plus two years. During this period the limitations stated in the syllabuses apply primarily regarding the courses included in the programme, and secondarily equivalent courses are offered.

The language of tuition is English.