



### Master Programme (One Year) in Informatics

#### Magisterutbildning i informatik

60 credits

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**Ladok Code:** NAINF

**Version:** 5.0

**Level:** Second cycle

**Approved by:** The Teaching Committee 2013-05-08

**Valid from:** Autumn 2013

**Valid for:**

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#### General Objectives

Second level education shall essentially build on the knowledge that students acquire in first level education or corresponding knowledge. Second level education shall involve a deepening of knowledge, skills and abilities relative to first level education and, in addition to what applies to first level education, shall

- further develop the students' ability to independently integrate and use knowledge,
- develop the students' ability to deal with complex phenomena, issues and situations, and
- develop the students' potential for professional activities that demand considerable independence or for research and development work.

(The Higher Education Act, Chapter 1, Section 9)

#### Objectives

The overall goal of the Master's program in Informatics is that students will develop advanced skills and knowledge in the subject of informatics.

After completion of the program, the student will show

##### *Knowledge and understanding*

- knowledge and understanding in their major field of study, including both an overview of the field and deeper knowledge of certain parts of the field and insight into current research and development,
- deepened knowledge of methods applicable in informatics,

##### *Skills and abilities*

- ability to integrate knowledge and to analyze, assess and deal with complex phenomena, issues and situations, even with limited information,
- ability to independently identify and formulate issues and to plan and to carry them out within specified time frames,
- ability to verbally and in writing, to present and discuss their conclusions and the knowledge and arguments behind them, in dialogue with different groups,
- the skill required to participate in research and development work or to work in other advanced contexts.

##### *Values and attitudes*

- ability within the main field of study to make judgments with regard to relevant scientific, social and ethical aspects, and demonstrate an awareness of ethical aspects on research and development work,
- insight into the possibilities and limitations of science, its role in society and the responsibility for its use, and
- ability to identify the need for further knowledge and to take responsibility for their own development of knowledge.

#### Content

The program is based on the student to take courses in the extent of 60 credits, of which 45 credits must consist of advanced courses, including at least 30 credits in informatics.

*Mandatory course in the program is:*

- Master's thesis in Informatics (15 credits)

And elective courses of 45 credits, including at least 30 credits at advanced level, of which at least 15 credits must be in informatics.

## **Admission Requirements**

- Bachelor's degree, 180 credits, in Informatics (or equivalent).
- Verified knowledge of English corresponding to the course *English B/6* in the Swedish Upper Secondary School.

For further information about English language proficiency, please view:

<http://www.hb.se/en/International-student/Bachelor--Master-student/Application--Admission/Admission-process/English-language-proficiency/>

## **Degree**

Completed program leads to a Degree of Master of Science (60 credits) with a major in Informatics.

The exam certificate will be issued at request on a special form. More information is available on the university website.

Degree certificates are issued upon application on a special form. More information is available at [www.hb.se](http://www.hb.se).

## **Student Influence and Evaluation**

The education will be continually assessed. Each course is evaluated by students and teachers, and the overall program is evaluated and monitored by the education boards in informatics, which consists of teachers, representatives of students and business representatives. The results of these assessments are presented to the students in accordance with the university and institutional guidelines.

## **Miscellaneous**

The education is given on campus and in full-time. The education is in English.

Graduation from this program gives eligibility to studies at research level.

Courses from this program can be included in doctoral studies, after proper trial.