HÖGSKOLAN I BORÅS

Master Programme (One Year) in Informatics
Magisterutbildning i informatik
60 credits

Ladok Code: NAINF
Version: 10.0
Level: Second cycle
Approved by: Committee for Education in Librarianship, Information, and IT 2016-04-26
Valid from: Autumn 2016
Valid for:

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 Educations Act, Chapter 1, Section 9)

Objectives

The overall goal of the 1-year master programme in Informatics is that students will develop in-depth knowledge and skills in the subject of Informatics.
After completing the programme, the student will show:

Knowledge and understanding

- knowledge and understanding in the subject area of the programme, including a broad knowledge of the field, substantially more in-depth knowledge of a part of the field and insight into current research and development,
- in-depth knowledge of methods applicable in Informatics,

Skills and abilities

- ability to critically and systematically integrate knowledge and to analyse, assess and deal with complex phenomena, issues and situations, even with limited information,
- ability to critically, independently and creatively identify and formulate problems and to plan and use appropriate methods, carry out advanced tasks within specified time frames and thereby contribute to knowledge and to evaluate this work,
- ability in both national and international contexts, orally and in writing, to explain and discuss their conclusions and the knowledge and arguments behind them, in dialogue with different groups, and,
- the skills required to participate in research and development work or to work independently in other advanced contexts,

Judgement and approach

- ability in the main field of study to make judgments with regard to relevant scientific, social and ethical aspects, and demonstrate an awareness of ethical aspects of research and development,
- 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 knowledge development.

Content

The programme contains the following courses:

- Research Methods in Informatics and Business Administration (First-cycle, 7.5 credits)
- Trends in Informatics (Advanced level, 7.5 credits)
- Business Intelligence (Advanced level, 7.5 credits)
- Business Process Modelling (Advanced level, 7.5 credits)
- Data Mining (Advanced level, 7.5 credits)
- System Development Philosophies (Advanced level, 7.5 credits)
- Thesis for Master's (one year) Degree in Informatics (Advanced level, 15 credits)

The courses Trends in Informatics, Research Methods in Informatics and Business Administration and Thesis for Master's (one year) Degree in Informatics are compulsory. Remaining courses are elective and can be exchanged for other courses, after consultation with the programme coordinator. When exchanging courses, the course package as a whole must contain sufficient specialization within the main field of study and fulfil the requirement that at least 45 credits with the programme consist of advanced level courses, at least 30 credits of which are within Informatics.

Admission Requirements

- Bachelor's degree, 180 credits, in Informatics (or equivalent).
- Proficiency in English equivalent to:

IELTS (academic training), 6.5 (with no part of the test below 5.5)
or
TOEFL (Internet based): 90 (with a minimum of 20 on the written part)
or
TOEFL (paper based): 575 (with a minimum of 4.5 on the written part)
For further information about English language proficiency requirements, please view: http:www.hb.se/en/International-student/Application-and-Admission/Admission-process/English-language-proficiency/
Prerequisites apply for admission to the programme. Later courses in the programme may have additional prerequisites, described in the course syllabus.

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.

Student Influence and Evaluation

The programme is continuously evaluated. Each course is evaluated by students and faculty representatives, and the programme as a whole is evaluated and supervised by the education boards in Informatics, consisting of representatives from faculty, students and relevant professional fields. The results of these evaluations are made available to students in accordance with university and departmental policies.

Miscellaneous

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

Graduation from the program gives eligibility to postgraduate studies.

Courses from the program may be included in doctoral studies, after due assessment.

The language of instruction is English.