

## Programme Syllabus:

# Master by Research in Informatics, 120 Credits

## General data

<b>Code</b>	TPINA
<b>Cycle</b>	Second cycle
<b>Ref no</b>	MIUN 2009/97
<b>Credits</b>	120
<b>Answerable department</b>	Computer and System Science
<b>Answerable faculty</b>	Faculty of Science, Technology and Media
<b>Established</b>	2017-03-06
<b>Date of change</b>	2022-10-06
<b>Version valid from</b>	2019-07-01

## Aim

The objective of the programme is to provide an increased knowledge within the subject by planning and carrying out research projects in collaboration with other researchers and, if any, external partners.

## Programme objectives

OUTCOMES ACCORDING TO THE HIGHER EDUCATION ORDINANCE FOR A MASTER OF ARTS/SCIENCE (120 CREDITS)

### Knowledge and understanding

For a Master of Arts/Science (120 credits) the student shall have:

- demonstrated knowledge and understanding in the main field of study, including both broad knowledge of the field and a considerable degree of specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- demonstrated specialised methodological knowledge in the main field of study.

### Competence and skills

For a Master of Arts/Science (120 credits) the student shall have:

- demonstrated the ability to critically and systematically integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrated the ability to identify and formulate issues critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work
- demonstrated the ability in speech and writing both nationally and internationally to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrated the skills required for participation in research and development work or autonomous employment in some other qualified capacity.

Judgement and approach

For a Master of Arts/Science (120 credits) the student shall have:

- demonstrated 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
- demonstrated insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrated the ability to identify the personal need for further knowledge and take responsibility for his or her ongoing learning.

#### OUTCOMES FOR MASTER BY RESEARCH IN INFORMATICS

After completing the programme the student shall:

- Demonstrate good knowledge of central theoretical (within his/her field) starting points in informatics.
- Demonstrate good knowledge of the state of research and development in informatics.
- Demonstrate good skills in approaching (searching, finding, describing and analysing) a field of knowledge in informatics
- Demonstrate good skills in creating a good research design, carrying out a small research project and presenting and defending the work carried out.
- Demonstrate good skills in analysis and review of research results.
- Demonstrate familiarity with collaborating in research projects (collaboration skills, communication skills).

## **Content**

Informatics BA/MA, 30 credits, or courses relevant for the specialization  
Informatics MA Scientific Writing and Presentation Techniques, 7.5 credits  
Informatics MA, Problem formulation and Master Thesis Planning, 7.5 credits  
Informatics MA, Development of Theory and Research Design, 15 credits  
Informatics MA Scientific Project I, 15 credits  
Informatics MA, Scientific Project II, 15 credits  
Informatics MA, Master Thesis, 30 credits

## **Entry requirements**

English course 6/English course B from Swedish Upper Secondary School (Gymnasium) or the equivalent.

Bachelor of Arts/Science or equivalent (at least 180 Credits/180 ECTS), in Behavioural Science, Social Science, Informatics, Computer Engineering, Archives Science, or Media and Communication Science.

Assessment is based on degree project, letter of motivation, and, when applicable, other documented experience of relevance for the subject.

## **Description of programme**

The degree programme runs full-time for two years and is carried out for the most part in the form of research work in a research group.

## **Selection rules and procedures**

Alternative selection, see heading "Other information".

## **Programme with restricted admissions**

Special prerequisites for courses are given in the respective course specifications.

## **Teaching and examination**

Teaching is full-time in the form of research work in a research group.

The language of instruction is English.

The teaching and examination procedures are stated in the syllabus of each course.

**Title of qualification**

Degree of Master of Arts/Science (120 credits)

Masterexamen med huvudområdet informatik, translated into Master of Science (120 credits) with a major in Informatics.

**Other information**

During the programme course names, contents, credit units and schedules may change.

**CRITERIA FOR ALTERNATIVE SELECTION**

- The applicant's qualifications in relation to the chosen subject
- Letter of motivation
- Scientific quality of Bachelor's thesis, or other documented scientific work relevant to the planned field of research
- The applicant's analytical ability and English writing skills