

# Programme-specific part of the Education and Examination Regulations 2021-2022

## Graduate School of Geosciences: Master's degree programme in Geographical Sciences

The Master's degree programme *Geographical Sciences* offers the programme *Geographical Information Management and Applications*.

### Art. 2.1 - Admission requirements

1. Admission to the *Geographical Information Management and Applications* programme is granted to students with a Dutch or a foreign diploma confirming that they have acquired the knowledge, insights and skills at university Bachelor's level. Furthermore, students need to prove that they have gained the following specific knowledge, understanding and skills at university Bachelor's level, for instance equivalent to the advanced level of the major *Human Geography and Planning* at Utrecht University:
  - a) knowledge in the field of geo-information, geography, GIS or another GIMA-related field of study
  - b) insight into geographical data processes and collecting, processing and distributing information
  - c) academic and research skills
  - d) good command of the language or languages used in the programme
2. Students will be selected based on objective standards regarding:
  - a) their previous academic performance in a relevant subject area
  - b) relevant skills
  - c) their command of the language or languages used in the programme

This information is used to consider whether the student concerned will be able to complete the Master's programme successfully within the set time period.

The admission requirements have been formulated clearly and transparently so that candidates know in advance which requirements must be met in order to qualify for selection.

### Art. 3.1 – Aim of the degree programme

- a) The programme aims:

The aim of the GIMA master programme is to educate suitable candidates to become highly skilled and all-round geo-information managers and/or application specialists. Therefore, the candidates will be introduced into the theoretical, methodological, technological, and organizational principles of working with Geographical Information (GI), together with the use of GI-technology in spatial applications.

- b) The graduate is able to:

#### DOMAIN SPECIFIC

- a. Identify and understand geo-information concepts, methods and techniques.
- b. Use appropriate concepts, methods and techniques for the management and application of geo-information.
- c. Analyze the quality and usability of geo-information processes.
- d. Evaluate solutions for societal problems by applying knowledge of geo-information.
- e. Design and implement proof-of-concept geo-information-based solutions for societal problems.

#### SCIENTIFIC

- f. Independently formulate and execute research in accordance with academic standards within the field.
- g. Communicate clearly (both orally and in writing) with specialists and non-specialists to present and discuss the outcomes of research and design projects.
- h. Show awareness of the need to keep in touch with relevant developments within the discipline and show the ability to recognize, understand and apply new concepts and approaches as they emerge.
- i. Demonstrate understanding of the moral and ethical dimensions of scientific research and its applications, and the importance of intellectual integrity.

#### GENERAL LEARNING OUTCOMES

- j. Effectively organize, structure and plan phases in multidisciplinary teamwork.
- k. Critically reflect on own performance and results, as well as on those of colleagues.
- l. Design and plan a path to study in Geo-Information Science in a manner that is largely self-directed or autonomous. all-round geo-information managers and/or application specialists. Therefore, the candidates will be introduced into the theoretical, methodological, technological, and organizational principles of working with Geographical Information (GI), together with the use of GI-technology in spatial applications.

### **Art. 3.6 - Components of the Master's programme**

1. Appendix 1 describes the core components of the programme and their study load.
2. The prospectus gives a detailed description of the content and the form of instruction of the components of the programme, including prior knowledge that is required to participate successfully.

### **Art. 3.11 – Flexstudy**

1. Students in Geographical Sciences can participate in the flexstudy pilot according to the conditions laid down in paragraph 6A of the Regulations for Enrollment and Tuition Fees.
2. The provisions in the Education and Examination Regulations also apply to flexstudy.
3. At the start of each academic year the Director of Education decides which programme components the flexstudent will take. The flexstudent is only entitled to participate in classes and tests of these programme components.
4. Students who participate are obliged to participate in surveys investigating to what extent flexstudy fits their needs.

### **Art. 4.2 - Course admission requirements**

The Executive Board decides the order in which the required components of a Master's degree programme must be completed. This will be published in the prospectus.

### **Art. 4.7 - Evaluation of the quality of education**

1. The Director of Education monitors the quality of education, and ensures that both the courses and the curriculum are evaluated. The Director takes into consideration the advice and suggestions given by the Education Committee regarding improving and ensuring the quality of the programme.
2. Students who have participated in the course will be informed of the results of the course evaluation.

## Appendix 1: Structure of the programme

Required / theoretical	40 EC
Required (practical methods)	20 EC
MSc research/thesis	30 EC
Internship or Individual programme	30 EC

### Compulsory components (120 EC)

Module 0	Introduction	-
Module 1	Methods and Techniques	10 EC
Module 2	Basic Applications	10 EC
Module 3	Management in Organisation	10 EC
Module 4	Project Management	10 EC
Module 5	Advanced Methods and Techniques	10 EC
Module 6	Advanced Applications	10 EC
Module 7	Internship	30 EC
Module 8	MSc Thesis	30 EC