Programme-specific part of the Education and Examination Regulations 2019-2020
Master’s degree programme in Geographical Sciences
Graduate School of Geoscience

The master’s degree programme Geographical Sciences offers the programme Geographical Information and Management Applications.

art. 2.1 - admission requirements of the degree programme

1. Admission to the programme Geographical Information Management and Applications is given to a student holding a Dutch or foreign diploma confirming that he has gained the knowledge, insights and skills at university Bachelor’s level. Furthermore, the student needs to prove that he has 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 in geographical data processes and collecting, processing and distributing information.
   c) Academic skills and research skills.
   d) Control of the language or languages used in the programme.

2. Students will be selected on the basis of objective standards concerning:
   a) previous academic performance in a relevant subject area or areas;
   b) relevant skills;
   c) command of the language(s) used in the programme.
   This information is used to consider whether the student concerned is able to complete the Master’s Programme successfully within the nominal time period.
   The admission requirements have been formulated clearly and transparently so that candidates are aware beforehand of the requirements they must meet 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. The core components of the programme and their study load are described in appendix 1.
2. In the prospectus, the contents and form of instruction of the components of the programme are described in detail, stating the prior knowledge desirable or required to pass the relevant component.

art. 4.2 - course admission requirements

The Executive Board will decide the order in which the required components of a Master’s degree programme must be completed. This will be announced in the prospectus.

art. 4.7 - evaluation of the quality of education

1. The Director of Education is responsible for monitoring the quality of education. To this end, the Director ensures that courses are evaluated as well as the curriculum. The Director takes the advice and suggestions given by the Education Committee on improving and ensuring the quality of the programme into consideration.
2. Students who have participated in the course will be informed of the results of the course evaluation.
### Appendix 1: Structure of the programme

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required / theoretical</td>
<td>40 EC</td>
</tr>
<tr>
<td>Required (practical methods)</td>
<td>20 EC</td>
</tr>
<tr>
<td>MSc research/thesis</td>
<td>30 EC</td>
</tr>
<tr>
<td>Internship or Individual programme</td>
<td>30 EC</td>
</tr>
</tbody>
</table>

### Compulsory components (120 EC)

<table>
<thead>
<tr>
<th>Module 0</th>
<th>Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module 1</td>
<td>Methods and Techniques</td>
</tr>
<tr>
<td>Module 2</td>
<td>Basic Applications</td>
</tr>
<tr>
<td>Module 3</td>
<td>Management in Organisation</td>
</tr>
<tr>
<td>Module 4</td>
<td>Project Management</td>
</tr>
<tr>
<td>Module 5</td>
<td>Advanced Methods and Techniques</td>
</tr>
<tr>
<td>Module 6</td>
<td>Advanced Applications</td>
</tr>
<tr>
<td>Module 7</td>
<td>Internship</td>
</tr>
<tr>
<td>Module 8</td>
<td>MSc Thesis</td>
</tr>
</tbody>
</table>