Programme-specific Section of the Curriculum for the MSc Programme in Geography and Geoinformatics with a minor subject at the Faculty of Science, University of Copenhagen 2010 (Rev. 2018)

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1 Title, affiliation and language
A shared section that applies to all BSc and MSc Programmes at the Faculty of Science is linked to this programme-specific curriculum.

1.1 Title
The MSc Programme in Geography and Geoinformatics with a minor subject leads to a Master of Science (MSc) in Geography and Geoinformatics and minor in [the minor subject] with the Danish title: Cand.scient. (candidatus/candidata scientiarum) i geografi og geoinformatik med sidefag i [the minor subject].

It will appear from the diploma that the study programme has been completed as an MSc in two subjects and, provided that the requirements pertaining to the Upper Secondary School course packages (gymnasiefagpakkerne) have been met, that academic qualifications (faglig competence) for teaching at the Danish Upper Secondary School in the subjects have been achieved.

1.2 Affiliation
The programme is affiliated with the Study Board of Geosciences and Management, and the students can both elect, and be elected, to this study board.

1.3 Corps of external examiners
The following corps of external examiners is used for the central parts of the MSc Programme:
- Corps of External Examiners for Geography and Geoinformatics (geografi)

1.4 Language
The language of this MSc Programme is English.

2 Academic profile
2.1 Purpose
Graduates in Geography and Geoinformatics with a minor subject are able to apply geographical methods of working in a critical manner and communicate academic problems and model solutions to geographers and to other partners and users. The breadth and interdisciplinary nature of the programme enables them to engage in and manage complex tasks and projects. They are also able to understand and work with people from different scientific backgrounds, and act as bridge-builders between, e.g. science and social studies.

2.2 General programme profile
The MSc programme includes a thesis, which is an independent experimental, field-based or theoretical study within a clearly defined area of the geographical fields of study Geography and Geoinformatics is the key subject area of the programme.

2.3 General structure of the programme
The MSc Programme is set at 120 or 150 ECTS depending on whether the minor subject is within the field of sciences or not.

Exercise and Sport Sciences is in this regard considered as being outside the field of science.

The MSc Programme in Geography and Geoinformatics with a minor subject consists of the following elements:
- Basic study program, 120 ECTS including the thesis.
• Extension of the minor subject, 30 ECTS, if the minor subject is outside the field of science.

There are no defined specialisations in this MSc Programme.

2.4 Career opportunities
The MSc Programme in Geography and Geoinformatics with a minor subject qualifies students to become professionals within business functions and/or areas such as:
• A PhD programme
• Upper secondary school teacher in Geography and the minor subject.
• Holders of an MSc degree in Geography & Geoinformatics are able to apply geographical methodologies in a critical manner and communicate geographical subject matter and solution models both to other geographers and other collaboration partners and users.
• With their broadly based and often interdisciplinary education, they are capable of being involved in and managing complex tasks and projects.
• Also, they are able to understand and work with persons from other scientific backgrounds and bridge the gaps between, for example, the natural and social sciences.

3 Description of competence profiles
Students following the MSc Programme acquire the knowledge, skills and competences listed below. Students will also acquire other qualifications through elective subject elements and other study activities.

3.1 Competence profile
On completion of the programme, an MSc in Geography and Geoinformatics with a minor subject has acquired the following:

Knowledge about:
• And insights into the advanced theories and methodologies of the geographical field of study.
• Analysing and taking a critical approach to natural, environmental or societal structures and changes and the process-related and spatial aspects of such changes.
• Detailed knowledge about the student’s field(s) of specialisation.

Skills in/to:
• Take a scientific, problem-oriented and critical approach to geographically relevant issues within aspects of nature, the environment and society.
• Work at a high scientific level within the geographical field of study or the graduate’s fields of specialisation.
• Have an understanding of the special identity and application-oriented perspectives of the geographical field of study, for example in relation to the job market.

Competences in/to:
• Identifying, proposing and preparing proposals to solving complex geographical problems in terms of theory, methodology and empiricism based on independently acquired knowledge at a high level.
• Expressing him or herself in scientifically correct language, arguing in a scientific manner, engaging in a scientific discussion and communicating scientific knowledge at various levels.
• Integrating, discussing and putting into perspective theoretical, methodological and empirical choices, for example demonstrating reflective and critical thinking about the choices made and the possibilities and limitations of science in relation to a specific problem.
• Critically assessing own academic abilities and the relationship between own field of study and other fields of study, for example being able to assess and relate literature within one field to literature within other contiguous academic fields of study.
• Independently managing and carrying out large-scale data collection and analysis.
• Independently planning own learning strategy, learning outcomes and learning situation and entering into different learning and collaborative contexts, for example with students/graduates within other fields of study.

4 Admission requirements
With a Bachelor’s degree in Geography and Geoinformatics (geografi og geoinformatik) from the University of Copenhagen the student is granted reserved access and guaranteed a place on the MSc Programme in Geography and Geoinformatics with a minor subject if the student applies before the application deadline during the first application period after the completion of the Bachelor’s degree.

The admission requirements for the MSc Programme in Biology with a minor subject is the same as the admission requirements listed in paragraph 4 in “Programme-specific Section of the Curriculum for the MSc Programme in Geography and Geoinformatics” supplemented with the following:

• At least 105 ECTS from the Upper Secondary School course package (gymnasiefagpakken) are included in the BSc programme.
• At least 45 ECTS from the minor subject is included in the BSc programme.
  o If the minor subject is within the field of sciences (with the exception of Exercise and Sport Sciences) the 45 ECTS must be contained in the minor subject Upper Secondary School course package (den reducerede gymnasiefagpakke).

5 Prioritisation of applicants
If the number of qualified applicants to the programme exceeds the number of places available the applicants will be prioritised according to paragraph 5 in “Programme-specific Section of the Curriculum for the MSc Programme in Geography and Geoinformatics”.

6 Structure of the programme
The compulsory subject elements, restricted elective subject elements and the thesis constitute the central parts of the programme (Section 21 of the Ministerial Order on Bachelor and Master’s Programmes (Candidatus) at Universities).

6.1 Programme components
The programme is set at 120/150 ECTS and consists of the following:
• Compulsory subject elements, 7.5 ECTS.
• Restricted elective subject elements, 37.5 ECTS.
• The minor subject
  o 45 ECTS (minor subject within the field of science)
  o 75 ECTS (minor subject outside the field of science)
• Thesis, 30 ECTS.
6.1.1 Compulsory subject elements within the major subject
All of the following subject elements are to be covered (7.5 ECTS):
- NNNDK15002U Geografiens didaktik Block 1 7.5 ECTS

6.1.2 Restricted elective subject elements within the major subject
37.5 ECTS are to be covered as subject elements from the following lists:
Up to 15 ECTS credits in BSc subject elements are to be covered by subject elements from the following list, if they were not passed as part of the BSc programme:
- NGEB10012U Jordens opbygning, dynamiske historie og ressourcer Block 3 7.5 ECTS
- NDIA10001U Grundkursus i de naturvidenskabelige fags didaktik Block 4 7.5 ECTS

Up to 37.5 ECTS credits are to be covered as subject elements from the following list:
- NIGK17008U Environment, Society and Development Block 1 7.5 ECTS
- NIGK14009U Land Use Transitions in the Global South Block 1 7.5 ECTS
- NGEK10015U The Dynamics of City Regions: Social and Economic Change Block 1 7.5 ECTS
- NGEK10002U Applied GIS and Geoinformatics for Urban Spatial Analysis Block 1 7.5 ECTS
- NIGK17010U Remote Sensing of the Bio-Geosphere Block 1 7.5 ECTS
- NIGK17014U Coastal Geoscience Block 1 7.5 ECTS
- NIGK17013U Ecosystems, Climate and Climate Change Block 1 7.5 ECTS
- NIGK17015U Transformation of Cities and Landscapes: Globalisation and Local Strategies Block 2 7.5 ECTS
- NIGK17017U Fluvial and Estuarine Geoscience Block 2 7.5 ECTS
- NIGK17016U Environmental Soil Science Block 2 7.5 ECTS
- NIGK15001U Advanced Geoinformatics Block 2 7.5 ECTS
- NIGK17011U Spatial and Temporal Pattern Analysis Block 2 7.5 ECTS
- NGEK11006U International Migration - Flows, Networks and Diasporas Block 2 7.5 ECTS
- NGEK10018U Countryside Planning: Policies, Processes and Regulation Block 2 7.5 ECTS
- NIGK15006U Field and Methods Course in Geography and Geoinformatics Block 1+2 15 ECTS
- NGEK10024U Globalisation and Dynamics in Global Value Chains Block 3 7.5 ECTS
- NGEK10027U Project Management and Planning Block 3 7.5 ECTS
- NGEA09056U Numerical Modelling in Fluvial, Coastal, Estuarine and Marine Environment Block 3 7.5 ECTS
- NIGK15027U Surface Hydrology Block 3 7.5 ECTS
- NIGK17012U Remote Sensing in Land Science Studies Block 3 7.5 ECTS
- NIGK17009U Livelihoods and Rural-Urban Connections in the Global South Block 4 7.5 ECTS
- NIGK15005U Ecological Modelling Block 4 7.5 ECTS
- NIGK17007U Advanced Soil Science and Isotope Geochemistry Block 4 7.5 ECTS
- NIGK14008U VVM i praksis Block 4 7.5 ECTS
- NIGK15002U Aerial and Near-field Remote Sensing Block 4 7.5 ECTS
- NIGK15021U Programming, Customization and Automation in GIS Block 4 7.5 ECTS
- NGEA06026U Lærenstalternes fælles byplankursus Block 3+4 15 ECTS
- NIGK15006U Field and Methods Course in Geography and Geoinformatics Block 3+4 15 ECTS
- NIGK15022U Project Course in Geography and Geoinformatics Block 1-5 7.5 ECTS
- NFKK14006U Project in Practice Block 1-5 15 ECTS
- NIGK15006U Field and Methods Course in Geography and Geoinformatics Block 5+1 15 ECTS
6.1.3 Restricted elective subject elements within the minor subject
45 ECTS are to be covered as subject elements from the minor subject if the minor subject is within the field of science.

75 ECTS are to be covered as subject elements from the minor subject if the minor subject is not within the field of science.

If the student lacks less than 45 or 75 ECTS of the minor subject when the MSc Programme begins the difference must be covered as elective subject elements.

6.1.4 Elective subject elements
The elective subjects are generally covered by the subject elements which the student follows on the minor subject.

It is, however, possible to release elective subject elements if the academic minimum requirements for the minor subjects have been met – this will, e.g., be the case if one or both of the following two conditions are present:

- A subject element forms part of both the major and minor Upper Secondary School course packages (gymnasiefagpakker). The subject element should only be passed once, and the student has full freedom of choice in terms of the remaining ECTS.
- If less than 45 or 75 ECTS within the minor subject are missing when entering the MSc Programme.

BSc subject elements corresponding to 15 ECTS may be included in the MSc Programme as elective subjects.

Projects outside the course scope may be included in the elective section of the programme with up to 15 ECTS. The regulations are described in Appendix 5 to the shared section of the curriculum.

Projects in practice may not exceed 15 ECTS in total on the restricted elective and elective section of the programme. Project in practice may be written as a combination of the restricted elective and elective section of the programme. The regulations are described in Appendix 4 to the shared section of the curriculum.

6.1.5 Thesis
The MSc Programme in Geography and Geoinformatics includes a thesis corresponding to 30 ECTS, as described in Appendix 2 to the shared curriculum. The thesis must be written within the academic scope of the programme.

6.1.6 Academic mobility
The academic mobility is generally covered by the subject elements which the student follows on the minor subject.

The student has the possibility to arrange academic mobility in parts of the programme. This requires that the student follows the rules and regulations regarding pre-approvals and credit.

7 Exemptions
In exceptional circumstances, the study board may grant exemptions from the rules in the curriculum specified solely by the Faculty of Science.
8 Commencement etc.
8.1 Validity
This subject specific section of the curriculum applies to all students enrolled in the programme – see however Appendix 2.

8.2 Transfer
Students enrolled on previous curricula may be transferred to the new one as per the applicable transfer regulations or according to an individual credit transfer by the study board.

8.3 Amendments
The curriculum may be amended once a year so that any changes come into effect at the beginning of the academic year. Amendments must be proposed by the study board and approved by the Dean.

Notification about amendments that tighten the admission requirements for the programme will be published online at www.science.ku.dk one year before they come into effect.

If amendments are made to this curriculum, an interim arrangement may be added if necessary to allow students to complete their MSc Programme according to the amended curriculum.
Appendix 1 Tables

Tables for students admitted to the programme in September (summer):

Table – MSc Programme in Geography and Geoinformatics with a minor subject within SCIENCE

<table>
<thead>
<tr>
<th></th>
<th>Block 1</th>
<th>Block 2</th>
<th>Block 3</th>
<th>Block 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
</tr>
<tr>
<td>2nd year</td>
<td>Geografiens didaktik</td>
<td>Restricted elective</td>
<td>MSc Thesis</td>
<td>MSc Thesis</td>
</tr>
<tr>
<td></td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>MSc Thesis</td>
<td>MSc Thesis</td>
</tr>
</tbody>
</table>

Compulsory | Restricted elective | Elective

The table illustrates the recommended academic progression. The student is allowed to plan an alternative progression within the applicable rules.

Table – MSc Programme in Geography and Geoinformatics with a minor subject outside SCIENCE

<table>
<thead>
<tr>
<th></th>
<th>Block 1</th>
<th>Block 2</th>
<th>Block 3</th>
<th>Block 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td>2nd year</td>
<td>Geografiens didaktik</td>
<td>Restricted elective</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
</tr>
<tr>
<td>3rd year</td>
<td>MSc thesis</td>
<td>MSc thesis</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSc thesis</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Compulsory | Restricted elective | Elective

The table illustrates the recommended academic progression. The student is allowed to plan an alternative progression within the applicable rules. Note that minor subjects outside SCIENCE may have a fixed progression.
Appendix 2 Interim arrangements

The Shared Section of the BSc and MSc Curricula for Study Programmes applies to all students.

The interim arrangements below only consist of parts where the current curriculum differs from the rules and regulations that were previously valid. Therefore, if information about relevant rules and regulations are missing, it can be found in the curriculum above.

1 General changes for students admitted in the academic year 2017/18

Students admitted to the MSc Programme in the academic year 2017/18 must finish the programme as listed in the curriculum above with the following exceptions.

**Restricted elective subject elements**

37.5 ECTS are to be covered as subject elements from one or both of the following lists:

*Up to 15 ECTS in BSc subject elements are to be covered by subject elements from the following list, if they were not passed as part of the BSc programme:*

<table>
<thead>
<tr>
<th>Subject Element</th>
<th>Description</th>
<th>Block</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGEB10012U</td>
<td>Jordens opbygning, dynamiske historie og ressourcer</td>
<td>Block 3</td>
<td>7.5</td>
</tr>
<tr>
<td>NDIA10001U</td>
<td>Grundkursus i de naturvidenskabelige fags didaktik</td>
<td>Block 4</td>
<td>7.5</td>
</tr>
</tbody>
</table>

*Up to 37.5 ECTS are to be covered as subject elements from the following list:*

<table>
<thead>
<tr>
<th>Subject Element</th>
<th>Description</th>
<th>Discontinued</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGEA09055U</td>
<td>Process Studies and Field Techniques</td>
<td>*</td>
<td>7.5</td>
</tr>
</tbody>
</table>

* See course changes below.

2 General changes for students admitted in the academic year 2016/17

Students admitted to the MSc Programme in the academic year 2016/17 must finish the programme as listed in the curriculum above with the following exceptions.

**Restricted elective subject elements**

37.5 ECTS are to be covered as subject elements from one or both of the following lists:

*Up to 15 ECTS in BSc subject elements are to be covered by subject elements from the following list, if they were not passed as part of the BSc programme:*

<table>
<thead>
<tr>
<th>Subject Element</th>
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<th>Block</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGEB10012U</td>
<td>Jordens opbygning, dynamiske historie og ressourcer</td>
<td>Block 3</td>
<td>7.5</td>
</tr>
<tr>
<td>NDIA10001U</td>
<td>Grundkursus i de naturvidenskabelige fags didaktik</td>
<td>Block 4</td>
<td>7.5</td>
</tr>
</tbody>
</table>

*Up to 37.5 ECTS are to be covered as subject elements from the following list:*

<table>
<thead>
<tr>
<th>Subject Element</th>
<th>Description</th>
<th>Discontinued</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIGK14049U</td>
<td>Coastal, Estuarine and Fluvial Geoscience (Part 1)</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14043U</td>
<td>Environmental Soil Sciences (Part 1)</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14047U</td>
<td>Environment, Society and Development (Part 1) – Development Geography</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14048U</td>
<td>Environment, Society and Development (Part 2) – Human Environment Interactions</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NGEK10016U</td>
<td>Climate Changes: Causes, Effects, Mitigation and Adaptation</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14041U</td>
<td>Transformations of Cities and Landscapes (Part 1): Globalisation and Local strategies</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14050U</td>
<td>Coastal, Estuarine and Fluvial Geoscience (Part 2)</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14044U</td>
<td>Environmental Soil Sciences (Part 2)</td>
<td>*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14042U</td>
<td>Transformations of Cities and Landscapes (Part 2):</td>
<td>*</td>
<td>7.5</td>
</tr>
</tbody>
</table>
Globalisation and Local Strategies

- NIGK14046U Remote Sensing of the Bio-Geosphere (Part 2) Discontinued* 7.5 ECTS
- NGEK10019U Ecological Climatology and Climate Change Discontinued* 7.5 ECTS
- NIGK14038U Spatial Analysis Discontinued* 7.5 ECTS
- NIGK13018U Rural-Urban Connections in the Global South Discontinued* 7.5 ECTS
- NGEK10026U Rural Livelihoods, Vulnerability and Adaptation Discontinued* 7.5 ECTS
- NIGK15026U Stable Isotope Geochemistry Discontinued* 7.5 ECTS

* See course changes below.

3 General changes for students admitted in the academic year 2015/16
Students admitted to the MSc Programme in the academic year 2015/16 must finish the programme as listed in the curriculum above with the following exceptions.

A compulsory subject element has been added to the programme from the academic year 2016/17. For students admitted in the academic year 2015/16 or earlier it is not a requirement to have passed the compulsory subject element.

Structure of the programme
The programme is set at 120/150 ECTS and consists of the following:
- Restricted elective subject elements, 45 ECTS.
- The minor subject
  - 45 ECTS (minor subject within the field of science).
  - 75 ECTS (minor subject outside the field of science).
- Thesis, 30 ECTS.

Table – MSc Programme in Geography and Geoinformatics with a minor subject within the field of science

<table>
<thead>
<tr>
<th></th>
<th>Block 1</th>
<th>Block 2</th>
<th>Block 3</th>
<th>Block 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
</tr>
<tr>
<td>2nd year</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>MSc Thesis</td>
<td>MSc Thesis</td>
</tr>
<tr>
<td></td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>MSc Thesis</td>
<td>MSc Thesis</td>
</tr>
</tbody>
</table>

| 3rd year     | MSc thesis         | MSc thesis         |                  |                  |

Table – MSc Programme in Geography and Geoinformatics with a minor subject outside the field of science

<table>
<thead>
<tr>
<th></th>
<th>Block 1</th>
<th>Block 2</th>
<th>Block 3</th>
<th>Block 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td>2nd year</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
</tr>
<tr>
<td>3rd year</td>
<td>MSc thesis</td>
<td>MSc thesis</td>
<td></td>
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<tr>
<td></td>
<td>MSc thesis</td>
<td>MSc thesis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Restricted elective subject elements
45 ECTS are to be covered as subject elements from one or both of the following lists:

*Up to 15 ECTS in BSc subject elements are to be covered by subject elements from the following list, if they were not passed as part of the BSc programme:*

- NGEB10012U Jordens opbygning, dynamiske historie og ressourcer, Block 3, 7.5 ECTS
- NDIA10001U Grundkursus i de naturvidenskabelige fags didaktik, Block 4, 7.5 ECTS

*Up to 45 ECTS are to be covered as subject elements from the following list:*

- Restricted elective subject elements offered in this curriculum (see above)
- NNDK15002U Geografiens didaktik, Block 1, 7.5 ECTS
- NGEA09055U Process Studies and Field Techniques, Discontinued*, 7.5 ECTS
- NIGK14049U Coastal, Estuarine and Fluvial Geoscience (Part 1), Discontinued*, 7.5 ECTS
- NIGK14043U Environmental Soil Sciences (Part 1), Discontinued*, 7.5 ECTS
- NIGK14047U Environment, Society and Development (Part 1) – Development Geography, Discontinued*, 7.5 ECTS
- NIGK14048U Environment, Society and Development (Part 2) – Human Environment Interactions, Discontinued*, 7.5 ECTS
- NIGK14045U Remote Sensing of the Bio-Geosphere (Part 1), Discontinued*, 7.5 ECTS
- NGEK10016U Climate Changes: Causes, Effects, Mitigation and Adaptation, Discontinued*, 7.5 ECTS
- NIGK14041U Transformations of Cities and Landscapes (Part 1): Globalisation and Local strategies, Discontinued*, 7.5 ECTS
- NIGK14050U Coastal, Estuarine and Fluvial Geoscience (Part 2), Discontinued*, 7.5 ECTS
- NIGK14044U Environmental Soil Sciences (Part 2), Discontinued*, 7.5 ECTS
- NIGK14042U Transformations of Cities and Landscapes (Part 2): Globalisation and Local Strategies, Discontinued*, 7.5 ECTS
- NIGK14046U Remote Sensing of the Bio-Geosphere (Part 2), Discontinued*, 7.5 ECTS
- NGEK10019U Ecological Climatology and Climate Change, Discontinued*, 7.5 ECTS
- NIGK14038U Spatial Analysis, Discontinued*, 7.5 ECTS
- NIGK13018U Rural-Urban Connections in the Global South, Discontinued*, 7.5 ECTS
- NGEK10026U Rural Livelihoods, Vulnerability and Adaptation, Discontinued*, 7.5 ECTS
- NIGK15026U Stable Isotope Geochemistry, Discontinued*, 7.5 ECTS

*Structure of the programme – students admitted to the programme in February (winter)*

Students who finished their Bachelor’s degree in Geography and Geoinformatics in block 1 or 2 in the academic year 2015/16 were allowed to be admitted to the MSc programme in Geography and Geoinformatics with a Minor Subject with studies starting on 1 February of the academic year in question.

Students admitted to the MSc programme in block 3 must follow the tables outlined below:

*Table – MSc Programme in Geography and Geoinformatics with a minor subject within the field of science*

<table>
<thead>
<tr>
<th>1st year</th>
<th>Block 3</th>
<th>Block 4</th>
<th>Block 1</th>
<th>Block 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Restricted elective</td>
<td></td>
</tr>
<tr>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Restricted elective</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2nd year</th>
<th>Block 3</th>
<th>Block 4</th>
<th>Block 1</th>
<th>Block 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Thesis</td>
<td>Thesis</td>
<td></td>
</tr>
<tr>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Thesis</td>
<td>Thesis</td>
<td></td>
</tr>
</tbody>
</table>

| Compulsory | Restricted elective | Minor subject |
Table – MSc Programme in Geography and Geoinformatics with a minor subject outside the field of science

<table>
<thead>
<tr>
<th>Year</th>
<th>Block 3</th>
<th>Block 4</th>
<th>Block 1</th>
<th>Block 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td>2nd</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Minor subject</td>
<td>Minor subject</td>
</tr>
<tr>
<td></td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
<td>Restricted elective</td>
</tr>
<tr>
<td>3rd</td>
<td>Thesis</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Compulsory  
Restricted elective  
Minor subject

4 General changes for students admitted in the academic year 2014/15 or earlier

Students admitted to the MSc Programme in the academic year 2014/15 or earlier must finish the programme as listed in the curriculum above with the following exceptions.

Structure of the programme

The programme is set at 120/150 ECTS and consists of the following:

- Restricted elective subject elements, 45 ECTS.
- The minor subject
  - 45 ECTS (minor subject within the field of science).
  - 75 ECTS (minor subject outside the field of science).
- Thesis, 30 ECTS.

Restricted elective subject elements

45 ECTS are to be covered as subject elements from one or both of the following lists:

Up to 15 ECTS in BSc subject elements are to be covered by subject elements from the following list, if they were not passed as part of the BSc programme:

- NGEB10012U  Jordens opbygning, dynamiske historie og ressourcer  Block 3  7.5 ECTS
- NDIA10001U  Grundkursus i de naturvidenskabelige fags didaktik  Block 4  7.5 ECTS

Up to 45 ECTS are to be covered as subject elements from the following list:

- NNDK15002U  Geografiens didaktik  Block 1  7.5 ECTS
- NIFK18003U  Thematic Course: Interdisciplinary Land Use and Natural Resource Management  Block 3  15 ECTS
- LNAK10010U  Environmental Impact Assessment  Block 4  7.5 ECTS
- LFKK10246U  Thematic Course: Interdisciplinary Land Use and Natural Resource Management  Discontinued*  15 ECTS
- NGEA09055U  Process Studies and Field Techniques  Discontinued*  7.5 ECTS
- NGEK10030U  Marine Geoscience  Discontinued*  7.5 ECTS
- NIGK13020U  Project Course  Discontinued*  7.5 ECTS
- NIGK13014U  Field and Methods Course  Discontinued*  15 ECTS
- NIGK14028U  Past Climate and Sea Level – Processes and Proxies (Part 1)  Discontinued*  7.5 ECTS
- NIGK14029U  Past Climate and Sea Level – Processes and Proxies (Part 2)  Discontinued*  7.5 ECTS
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Discontinued</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIGK14040U</td>
<td>Remote Sensing Seminar and Project work</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14049U</td>
<td>Coastal, Estuarine and Fluvial Geoscience (Part 1)</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14043U</td>
<td>Environmental Soil Sciences (Part 1)</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14047U</td>
<td>Environment, Society and Development (Part 1) – Development Geography</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14048U</td>
<td>Environment, Society and Development (Part 2) – Human Environment Interactions</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NGEK10016U</td>
<td>Climate Changes: Causes, Effects, Mitigation and Adaptation</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14041U</td>
<td>Transformations of Cities and Landscapes (Part 1): Globalisation and Local strategies</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14050U</td>
<td>Coastal, Estuarine and Fluvial Geoscience (Part 2)</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14044U</td>
<td>Environmental Soil Sciences (Part 2)</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14042U</td>
<td>Transformations of Cities and Landscapes (Part 2): Globalisation and Local Strategies</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NGEK10019U</td>
<td>Ecological Climatology and Climate Change</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK14038U</td>
<td>Spatial Analysis</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK13018U</td>
<td>Rural-Urban Connections in the Global South</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NGEK10026U</td>
<td>Rural Livelihoods, Vulnerability and Adaptation</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
<tr>
<td>NIGK15026U</td>
<td>Stable Isotope Geochemistry</td>
<td>Discontinued*</td>
<td>7.5</td>
</tr>
</tbody>
</table>

* See course changes below.

5 Course specific changes

<table>
<thead>
<tr>
<th>Discontinued course</th>
<th>Interim arrangement</th>
</tr>
</thead>
</table>
| Climate Changes: Causes, Effects, Mitigation and Adaptation (NGEK10016U), 7.5 ECTS | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18. |
| Coastal, Estuarine and Fluvial Geoscience (Part 1) (NIGK14049U), 7.5 ECTS         | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17.  
The course is identical to Fluvial and Estuarine Geoscience (NIGK17017U), 7.5 ECTS. |
| Coastal, Estuarine and Fluvial Geoscience (Part 2) (NIGK14050U), 7.5 ECTS          | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17.  
The course is identical to Coastal Geoscience (NIGK17014U), 7.5 ECTS. |
| Ecological Climatology and Climate Change (NGEK10019U), 7.5 ECTS                   | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18. |
| Environment, Society and Development (part 1 + 2) (NGEK10011U), 15 ECTS            | The course was a restricted elective course in the academic year 2013/14 or earlier.  
The course was offered for the last time in the academic year 2013/14 and a third exam is offered in the academic year 2013/14. |
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Information</th>
</tr>
</thead>
</table>
| Environment, Society and Development (Part 1) – Development Geography (NIGK14047U), 7.5 ECTS | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18. |
| Environment, Society and Development (Part 2) – Human Environment Interactions (NIGK14048U), 7.5 ECTS | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18. |
| Environmental Soil Sciences (Part 1) (NIGK14043U), 7.5 ECTS                      | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18. |
| Environmental Soil Sciences (Part 2) (NIGK14044U), 7.5 ECTS                      | The course was a restricted elective course in the academic year 2016/17 or earlier.  
The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18. |
| Environmental Soil Science (part 1+2) (NGEK10007U), 15 ECTS                     | The course was a restricted elective course in the academic year 2013/14 or earlier.  
The course was offered for the last time in the academic year 2013/14 and a third exam is offered in the academic year 2013/14. |
| Field and Methods Course (NIGK10014U), 15 ECTS                                   | The course was a restricted elective course in the academic year 2013/14 or earlier.  
The course was offered for the last time in the academic year 2012/13 and a third exam is offered in the academic year 2013/14. |
| Field and Methods Course in Geography and Geoinformatics (NIGK13014U), 15 ECTS   | The course was a restricted elective course in the academic year 2014/15.  
The course was offered for the last time in the academic year 2014/15 and a third exam is offered in the academic year 2015/16. |
| Marine Geoscience (NGEK10030U), 7.5 ECTS                                         | The course was a restricted elective course in the academic year 2013/14 or earlier.  
The course was offered for the last time in the academic year 2013/14 and a third exam is offered in the academic year 2013/14. |
| Past Climate and Sea Level – Processes and Proxies (Part 1) (NIGK14028U), 7.5 ECTS | The course was a restricted elective course in the academic year 2014/15 or earlier.  
The course was offered for the last time in the academic year 2014/15 and a third exam is offered in the academic year 2017/18. |
| Past Climate and Sea Level – Processes and Proxies (Part 2) (NIGK14029U), 7.5 ECTS | The course was a restricted elective course in the academic year 2014/15 or earlier.  
The course was offered for the last time in the academic year 2014/15 and a third exam is offered in the academic year 2017/18. |
| Process Studies and Field Techniques (NGEA09055U), 7.5 ECTS                        | The course was a restricted elective course in the academic year 2017/18 or earlier.  
The course was offered for the last time in the academic year 2017/18 and a third exam is offered in the academic year 2017/18. |
<p>| Production and Regulation of Landscape (part 1+2)                                 | The course was a restricted elective course in the academic year 2013/14 or earlier. |</p>
<table>
<thead>
<tr>
<th>Course Title</th>
<th>ECTS</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(NGEK10005U), 15 ECTS</td>
<td></td>
<td>The course was offered for the last time in the academic year 2013/14 and a third exam is offered in the academic year 2013/14.</td>
</tr>
<tr>
<td>Project Course (NIGK13020U), 7.5 ECTS</td>
<td></td>
<td>The course was a restricted elective course in the academic year 2014/15 or earlier.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The course was offered for the last time in the academic year 2014/15 and a third exam is offered in the academic year 2015/16.</td>
</tr>
<tr>
<td>Remote Sensing of the Bio-Geosphere (Part 2) (NIGK14046U), 7.5 ECTS</td>
<td></td>
<td>The course was a restricted elective course in the academic year 2016/17 or earlier.</td>
</tr>
<tr>
<td></td>
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<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Remote Sensing Seminar and Project work (NIGK14040U), 7.5 ECTS</td>
<td></td>
<td>The course was a restricted elective course in the academic year 2016/17 or earlier.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Remote Sensing of the Bio-Geosphere (Part 1) (NIGK14045U), 7.5 ECTS</td>
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<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Rural-Urban Connections in the Global South (NIGK13018U), 7.5 ECTS</td>
<td></td>
<td>The course was a restricted elective course in the academic year 2016/17 or earlier.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Rural Livelihoods, Vulnerability and Adaptation (NGEK10026U), 7.5 ECTS</td>
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<td>The course was a restricted elective course in the academic year 2016/17 or earlier.</td>
</tr>
<tr>
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<td></td>
<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Spatial Analysis (NIGK14038U), 7.5 ECTS</td>
<td></td>
<td>The course was a restricted elective course in the academic year 2016/17 or earlier.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Stable Isotope Geochemistry (NIGK15026U), 7.5 ECTS</td>
<td></td>
<td>The course was a restricted elective course in the academic year 2016/17 or earlier.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Thematic Course: Interdisciplinary Land Use and Natural Resource Management (LFKK10246U), 15 ECTS</td>
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<td>The course was a restricted elective course in the academic year 2014/15 or earlier.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The course is identical to NIFK18003U Thematic Course: Interdisciplinary Land Use and Natural Resource Management, 15 ECTS.</td>
</tr>
<tr>
<td>Transformations of Cities and Landscapes (Part 1): Globalisation and Local strategies (NIGK14041U), 7.5 ECTS</td>
<td></td>
<td>The course was a restricted elective course in the academic year 2016/17 or earlier.</td>
</tr>
<tr>
<td></td>
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<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
<tr>
<td>Transformations of Cities and Landscapes (Part 2): Globalisation and Local Strategies (NIGK14042U), 7.5 ECTS</td>
<td></td>
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<tr>
<td></td>
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<td>The course was offered for the last time in the academic year 2016/17 and a third exam is offered in the academic year 2017/18.</td>
</tr>
</tbody>
</table>
third exam is offered in the academic year 2017/18.
Appendix 3 Description of objectives for the thesis

After completing the thesis, the student should have:

Knowledge about:
- Advanced theories and methodologies of the geographical field of study.
- Scientific problems within the study programme’s subject areas and the student’s field(s) of specialisation.
- A suitable combination of methodologies/theories based on international research for use in his/her work with the problem formulation.
- A critical approach to natural, environmental or societal structures and changes and the process-related and spatial aspects of such changes.

Skills in/to:
- Take a scientific, problem-oriented and critical approach to geographically relevant issues within aspects of the nature, the environment or society.
- Work at a high scientific level within the geographical field of study and the student’s field(s) of specialisation.
- Apply and critically evaluate theories/methodologies, including their applicability and limitations.
- Assess the extent to which the production and interpretation of findings/material depend on the theory/methodology chosen and the delimitation chosen.
- Discuss academic issues arising from the thesis.
- Draw conclusions in a clear and academic manner in relation to the problem formulation and, more generally, considering the topic and the subject area.
- Discuss and communicate the academic and social significance, if any, of the thesis based on ethical principles.

Competences in/to:
- Initiating and performing academic work in a research context.
- Identifying, proposing and preparing proposals to solving complex geographical problems in terms of theory, methodology and empiricism based on independently acquired knowledge at a high academic level.
- Integrating, discussing and putting into perspective theoretical, methodological and empirical choices, for example demonstrating reflective and critical thinking about the choices made and the possibilities and limitations of science in relation to a specific problem.
- Solving complex problems and carrying out development assignments in a work context.