



# Programme-specific Section of the Curriculum for the MSc Programme in Geography and Geoinformatics at the Faculty of Science, University of Copenhagen 2017 (rev. 2026)

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## 1 Title, affiliation and language

A shared section that applies to all BSc, part-time MSc 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 leads to a Master of Science (MSc) in Geography and Geoinformatics with the Danish title: Cand.scient. (*candidatus/candidata scientiarum*) i *geografi og geoinformatik*.

### 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 (*geografi*).

### 1.4 Language

The language of this MSc Programme is English.

## 2 Academic profile

### 2.1 Purpose

Graduates in Geography and Geoinformatics 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 related to a wide range of societal challenges and sustainable development. They are also able to understand and work with people from different scientific backgrounds, and act as bridge-builders between the natural and societal sciences.

### 2.2 General programme profile

The study programme is structured around three specialisation profiles namely Geoinformatics, Physical Geography and Human Geography. Each specialisation includes a number of mandatory and specialised restricted elective courses. 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 ECTS.

The MSc Programme in Geography and Geoinformatics consists of the following elements:

- Specialisation 120 ECTS.

The student must choose one of the following specialisations:

- Geoinformatics
- Physical Geography
- Human Geography

## 2.4 Career opportunities

The MSc Programme in Geography and Geoinformatics qualifies students to become professionals within business functions and/or areas such as:

- Consultants and advisors in private consultancy firms or non-governmental organisations
- Public administration in municipalities or ministries, e.g., as urban, rural, regional or environmental planner
- Specific sectors such as communication, real estate development and finance, e.g. as sustainability advisors, and development advisors on Global South issues in the UN-system and other aid organisations, including consultancies and NGOs
- A PhD programme
- Teacher in geography in the upper secondary school or other educational institutions.

## 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 Geoinformatics

Graduates holding an MSc in Geography and Geoinformatics with a specialisation in Geoinformatics have acquired the following:

#### Knowledge about:

- Theory and concepts within Geographical information systems (GIS)
- Theory and concepts within remote sensing (Earth observation/EO)
- Programming, Customization and Automation in GIS.
- Earth observation platforms
- Relevant GIS and EO data models.
- Processing of data from registers and digital maps.
- Advanced use of GIS for applications within Geography, including spatial planning.
- Acquiring, processing and applications of contemporary remote sensing for environmental monitoring and modelling.
- Advanced methods for spatial analysis and modelling.
- State-of-the-art environmental monitoring algorithms within optical and thermal infrared remote sensing.
- Advanced methods of mapping and visualizations.

#### Skills in/to:

- Perform advanced GIS/EO-based spatial analysis, based on relevant data sets and appropriate methods.
- Perform advanced EO-based spatial analysis, based on relevant data sets and appropriate methods.

- Manage relevant GIS/EO software on an advanced level including programming and automation.
- Integrate EO data with other data in a GIS environment.
- Conduct effective visual communication of spatial data and the results of spatial analysis.
- Select appropriate EO data and methodology for areas covering the interaction between environmental resources, the dynamics and management of global and local land use, and global climate change.
- Assess data quality, e.g. in terms of uncertainty, in order to understand and describe the limitations of current EO and GIS technology.
- Oral and written communication to peers and the wider public of research and projects with important elements of GIS and/or EO.

#### Competences in/to:

- Work at a high scientific and application-oriented level with theoretical and methodological approaches to the application of GIS that are able to address a broad range of societal challenges.
- Apply theoretical and methodological approaches to EO to a wide range of range of societal challenges.
- Theorise and understand how geoinformatics including GIS and EO may be integrated in different scientific fields including environmental monitoring and modelling on both local and global scales.
- Work individually or in teams to design and implement projects with GIS and EO dimensions.

### **3.2 Physical Geography**

Graduates holding an MSc in Geography and Geoinformatics with a specialisation in Physical Geography have acquired the following:

#### Knowledge about:

- The physical processes of ecosystems with relation to exchange of energy, water and carbon.
- The application of global climate models to spatio-temporal variations in the global climate.
- Theoretical understanding and up-to-date research on selected topics in Arctic, Danish and tropical ecosystems with focus on soils, vegetation and changing land use.
- The interplay between atmospheric circulation and radiation/energy balance and correlation with the global climate and hydrology.
- Major landforms and their genesis, and their potential use as archives of environmental change.
- The potential effect of sea-level and climate change on landscape processes and geomorphology.
- Methods and equipment used in the study of glacial, fluvial and coastal environments.

#### Skills in/to:

- Identify and apply appropriate methods for assessing chemical and physical processes in soil related to climate change, changing land use and pollution.

- Identify and describe key factors that control a range of biogeochemical processes and net effects in terms of the environmental impact of pollutants and greenhouse gases.
- Identify and describe key factors and apply appropriate methods within glacial, fluvial and coastal science.
- Assess the relationship between terrestrial ecosystems and global climate systems contextualized via historical and present-day perspectives and across a range of temporal and spatial scales – from seconds to millennia and from stomata to continents.
- Assess how models at different scales and databases can be used to enhance our understanding of present and historical climate and predict future development in climatic trends.
- Design and carry out studies and research projects within the fields of geomorphology, sediment transport and landscape processes.
- Oral and written communication to peers and the wider public of research and projects within physical geography.

#### Competences in/to:

- Work at a high scientific and application-oriented level with theoretical and methodological approaches to understanding ecosystem processes, climate change, effects of land use change, pollution and other important societal challenges
- Apply theoretical and methodological approaches in glacial, fluvial and coastal geoscience at a high scientific level to address important societal challenges such as sea level rise, pollution, and coastal change.
- Work with complex models across the physical geography domain in order to solve interdisciplinary challenges.
- Work with appropriate methods used in theoretical and field-based studies of sediment transport in the fluvial and coastal environment as well as in glacial geomorphology.
- Select appropriate methods used in theoretical and field-based studies of ecosystem processes, climate change, and pollution of the environment
- Work individually or in teams to design and implement projects with physical geography dimensions.

### **3.3 Human Geography**

Graduates holding an MSc in Geography and Geoinformatics with a specialisation in Human Geography have acquired the following:

#### Knowledge about:

- Theoretical approaches and key conceptualisations of space and place in development geography, human-environment interactions and spatial planning in the Global South.
- Globalisation processes and their geographical implications from local to global scales for sustainable development including the dynamics of global value chains, migration, urbanisation, rural-urban connections and land use change in the Global South.
- Theoretical approaches to human geography and key conceptualisations of space and place including social and economic geography as well as human environment interactions and spatial planning in the Global North.
- The geographical implications of globalization and sustainable development from local to global scales, including transformation of cities, regions and landscapes, urbanization, and rural-urban connections and land use change in the Global North.

- The relationship between environmental change and human activity including resilience, vulnerability and adaptive processes.
- The role of uneven geographical development including its implications for urban and regional development as well as rural and urban livelihoods.

#### Skills in/to:

- Design and perform studies and research projects within the field of regional, economic and social geography.
- Design and perform studies and research projects within the field of development geography and human-environment interactions.
- Select appropriate quantitative and qualitative methodologies for problem-based research.
- Present theoretical arguments, conduct theoretical and empirical assessments and use the appropriate theories, methods and data to perform scientific analyses within the field of human geography.
- Plan and perform field work and projects within human geographical topics.
- Compile and analyse complex data from a variety of sources.
- Oral and written communication to peers and the wider public of research and projects within human geography

#### Competences in/to:

- Address important societal challenges such as sustainability in value chains, migration flows and land use change with a basis in a scientific and application-oriented level of knowledge of development geography and human environment interactions.
- Address important societal challenges such as uneven regional and socioeconomic development, planning, and urbanization.
- Work with interdisciplinary dimensions of human geographical processes and their impacts and spatial aspects at different scales.
- Work individually or in teams to design and implement projects with human geographical dimensions.
- Work in and understand the implications of cross-cultural contexts.

## **4 Admission requirements**

### **4.1 Bachelor's degrees that automatically fulfil the academic requirements**

Applicants with one of the following Bachelor's degrees automatically fulfil the academic requirements for admission to the MSc Programme in Geography and Geoinformatics:

- Geography and Geoinformatics (*geografi og geoinformatik*) from University of Copenhagen (reserved access)
- Geography from Aalborg University
- Surveying and Mapping (*landinspektørvidenskab*) from Aalborg University.
- Urban, Energy and Environmental Planning (*By-, energi- og miljøplanlægning*) from Aalborg University.
- Humanities-Technological (*humanistisk-teknologisk*) with specialisation in Geography from Roskilde University
- Natural Sciences (*naturvidenskabelig*) with specialisation in Geography from Roskilde University

- Social Sciences (*samfundsvidenskabelig*) with specialisation in Geography from Roskilde University
- Natural resources (*naturressourcer*) from University of Copenhagen.

#### 4.2 Other Bachelor's degrees

Applicants with a Bachelor's degree, Professional Bachelor's degree or equivalent from Danish or international universities other than those listed in 4.1 are qualified for admission to the MSc Programme in Geography and Geoinformatics if the programme includes the following:

- Minimum 60 ECTS corresponding to courses from the Bachelor's Programme in Geography and Geoinformatics from University of Copenhagen.

#### 4.3 Other applicants

The Faculty may also admit applicants who, after an individual academic assessment, are assessed to possess educational qualifications equivalent to those required in Subclauses 4.1-4.4.

#### 4.4 Language requirements

Applicants must be able to document English proficiency corresponding to one of the following:

- An entrance examination with an English level comparable to the Danish level B or higher from a country within EU/EEA or Switzerland
- International Baccalaureate (IB) from an international school
- European Baccalaureate (EB) from one of the approved schools
- English B or A as Single Subject Course in Denmark
- IELTS test score of minimum 6.5 with at least 6.0 in each sub score
- TOEFL test score of minimum 83 with at least 20 in each sub score
- Cambridge Advanced English (CAE) or Cambridge English: Proficiency (CPE) with a minimum score of 180 (C1-level)

#### 4.5 Supplementary subject elements

The qualifications of an applicant to the MSc programme are assessed exclusively on the basis of the qualifying Bachelor's degree. Supplementary subject elements passed between the completion of the Bachelor's program and the admission to the MSc programme cannot be included in the overall assessment.

However, subject elements passed before the completion of the Bachelor's program may be included in the overall assessment. This includes subject elements completed as continuing education as well as subject elements completed as part of a former higher education program. A maximum of 30 ECTS supplementary subject elements can be included in the overall assessment.

Subject elements passed before completing the Bachelor's programme which are to form part of the MSc programme to which the student has a legal right of admission (§15-courses) cannot be included in the overall assessment.

## 5 Prioritisation of applicants

With a Bachelor's degree in Geography and Geoinformatics from University of Copenhagen the student is granted reserved access and guaranteed a place on the MSc Programme in Geography and Geoinformatics if the student applies in time to begin the MSc Programme within three years of the completion of the Bachelor's degree.

If the number of qualified applicants to the programme exceeds the number of places available, applicants will be prioritised according to the following criteria:

- Total number of ECTS in courses in geography and geoinformatics
- Grade-point average achieved in qualifying degree within courses 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 30 of the Ministerial Order on Bachelor and Master's Programmes (Candidatus) at Universities).

### 6.1 Geoinformatics

The specialisation is set at 120 ECTS and consists of the following:

- Compulsory subject elements, 15 ECTS
- Restricted elective subject elements
  - 45 ECTS (thesis, 45 ECTS)
  - 30 ECTS (thesis, 60 ECTS)
- Elective subject elements, 15 ECTS
- Thesis, 45 or 60 ECTS

#### 6.1.1 Compulsory subject elements

All of the following subject elements are to be covered (15 ECTS):

Course Code	Course Title	Block	ECTS
NIGK17010U	Remote Sensing of the Bio-Geosphere	Block 1	7.5 ECTS
NIGK15001U	Advanced Geoinformatics	Block 2	7.5 ECTS

#### 6.1.2 Restricted elective subject elements

1) 15 ECTS are to be covered as subject elements from the following list:

Course Code	Course Title	Block	ECTS
NGEK10002U	Applied GIS and Geoinformatics for Urban Spatial Analysis	Block 1	7.5 ECTS
NIGK17011U	Spatial and Temporal Pattern Analysis	Block 2	7.5 ECTS
NIGK15002U	Aerial and Near-field Remote Sensing	Block 3	7.5 ECTS
NIGK17012U	Remote Sensing in Land Science Studies	Block 3	7.5 ECTS
NIGK15021U	Programming, Customization and Automation in GIS	Block 4	7.5 ECTS
NIGK22000U	Satellite Image Processing and Analysis in the Big Data Era	Block 4	7.5 ECTS

2) 30 ECTS are to be covered as subject elements from the following list (thesis, 45 ECTS):

15 ECTS are to be covered as subject elements from the following list (thesis, 60 ECTS):

<b>Course Code</b>	<b>Course Title</b>	<b>Block</b>	<b>ECTS</b>
NGEK10002U	Applied GIS and Geoinformatics for Urban Spatial Analysis	Block 1	7.5 ECTS
NIGK26003U	Coastal Geoscience	Block 1	7.5 ECTS
NIGK23004U	Environment, Society and Development in the Global South	Block 1	7.5 ECTS
NGEK10015U	The Dynamics of City Regions: Social and Economic Change	Block 1	7.5 ECTS
NIGK26004U	Advanced Land System Science	Block 1	7.5 ECTS
NIGK17016U	Environmental Soil Science*	Block 1	7.5 ECTS
NIGK26002U	Glacial Geoscience	Block 2	7.5 ECTS
NGEK10024U	Globalisation and Dynamics in Global Value Chains	Block 2	7.5 ECTS
NIGK23009	Rural Landscapes: Transformation and Governance	Block 2	7.5 ECTS
NIGK17011U	Spatial and Temporal Pattern Analysis	Block 2	7.5 ECTS
NIGK23013U	Urban and Rural Transformation: Uneven Geographies in the Global North	Block 2	7.5 ECTS
NNDK22001U	Videregående fagdidaktik i naturvidenskabelige fag	Block 2	7.5 ECTS
NIGK17013U	Ecosystems, Climate and Climate Change	Block 2	7.5 ECTS
NIGK15002U	Aerial and Near-field Remote Sensing	Block 3	7.5 ECTS
NGEK11006U	International Migration - Flows, Networks and Diasporas	Block 3	7.5 ECTS
NIGK21000U	Numerical Modelling in Coastal, Estuarine and Marine Environments	Block 3	7.5 ECTS
LNAK10066U	Planlægning i det åbne land	Block 3	7.5 ECTS
NIFK23006U	Practicing Interdisciplinary Field Research on the Environment	Block 3	15 ECTS
LFKK10278U	Project Management	Block 3	7.5 ECTS
NIGK17012U	Remote Sensing in Land Science Studies	Block 3	7.5 ECTS
NIGK15027U	Surface Hydrology*	Block 3	7.5 ECTS
NIGK23005U	Carbon Storage and Biological Interactions in Soil	Block 4	7.5 ECTS
NIGK15005U	Ecological Modelling	Block 4	7.5 ECTS
LNAK10010U	Environmental Impact Assessment	Block 4	7.5 ECTS
NIGK13012U	Human Adaptation to Climate Change and Variability	Block 4	7.5 ECTS
NIGK15021U	Programming, Customization and Automation in GIS	Block 4	7.5 ECTS
NIGK20001U	Rural-Urban Transformations in the Global South	Block 4	7.5 ECTS
NIGK22000U	Satellite Image Processing and Analysis in the Big Data Era	Block 4	7.5 ECTS

Course Code	Course Title	Block	ECTS
NIGK14008U	VVM i praksis*	Block 4	7.5 ECTS
NIGK25000U	Geoengineering	Block 4	7.5 ECTS
NIGK15006U	Field and Methods Course in Geography and Geoinformatics	Block 1-5	15 ECTS

\*The course is not offered in 2026/27

### 6.1.3 Elective subject elements

15 ECTS are to be covered as elective subject elements.

- All subject elements at MSc level may be included as elective subject elements in the MSc Programme.
- BSc subject elements corresponding to 15 ECTS may be included in the MSc Programme.
- Projects. See 6.1.4 Projects.

#### 6.1.4 Projects

- Projects outside the course scope (PUK) 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 (PIP) may be included in the elective or restricted elective section of the programme with 15 ECTS. PIP may not exceed 15 ECTS in total of the programme. PIP 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.
- Thesis preparation projects (PREP) may not be included in the elective section of the programme. The regulations are described in Appendix 6 to the shared section of the curriculum.

#### 6.1.5 Thesis

The MSc Programme in Geography and Geoinformatics with a specialisation in Geoinformatics includes a thesis corresponding to 45 or 60 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 curriculum makes it possible to follow subject elements outside the Faculty of Science.

The academic mobility for the MSc Programme in Geography and Geoinformatics with a specialisation in Geoinformatics (thesis, 45 ECTS) is placed in block 3+4 of the 1<sup>st</sup> year.

The academic mobility for the MSc Programme in Geography and Geoinformatics with a specialisation in Geoinformatics (thesis, 60 ECTS) is placed in block 3+4 of the 1<sup>st</sup> year.

Academic mobility requires that the student follows the rules and regulations regarding pre-approval and credit transfer.

In addition, the student has the possibility to arrange similar academic mobility in other parts of the programme.

## 6.2 Physical Geography

The specialisation is set at 120 ECTS and consists of the following:

- Compulsory subject elements, 15 ECTS
- Restricted elective subject elements
  - 45 ECTS (thesis, 45 ECTS)
  - 30 ECTS (thesis, 60 ECTS)
- Elective subject elements, 15 ECTS
- Thesis, 45 or 60 ECTS

### 6.2.1 Compulsory subject elements

All of the following subject elements are to be covered (15 ECTS):

Course Code	Course Title	Block	ECTS
NIGK26003U	Coastal Geoscience	Block 1	7.5 ECTS
NIGK17013U	Ecosystems, Climate and Climate Change	Block 2	7.5 ECTS

### 6.2.2 Restricted elective subject elements

1) 15 ECTS are to be covered as subject elements from the following list:

Course Code	Course Title	Block	ECTS
NIGK17016U	Environmental Soil Science*	Block 1	7.5 ECTS
NIGK26002U	Glacial Geoscience	Block 2	7.5 ECTS
NIGK21000U	Numerical Modelling in Coastal, Estuarine and Marine Environments	Block 3	7.5 ECTS
NIGK15027U	Surface Hydrology*	Block 3	7.5 ECTS
NIGK23005U	Carbon Storage and Biological Interactions in Soil	Block 4	7.5 ECTS
NIGK15005U	Ecological Modelling	Block 4	7.5 ECTS
NIGK19004U	Marine Geoscience	Block 5	7.5 ECTS
*The course is not offered in 2026/27			

2) 30 ECTS are to be covered as subject elements from the following list (thesis, 45 ECTS):

15 ECTS are to be covered as subject elements from the following list (thesis, 60 ECTS):

Course Code	Course Title	Block	ECTS
NGEK10002U	Applied GIS and Geoinformatics for Urban Spatial Analysis	Block 1	7.5 ECTS
NIGK23004U	Environment, Society and Development in the Global South	Block 1	7.5 ECTS
NIGK17010U	Remote Sensing of the Bio-Geosphere	Block 1	7.5 ECTS
NIGK26004U	Advanced Land System Science	Block 1	7.5 ECTS
NIGK17016U	Environmental Soil Science*	Block 1	7.5 ECTS
NIGK15001U	Advanced Geoinformatics	Block 2	7.5 ECTS
NIGK14056U	Climate Change and Water Resources	Block 2	7.5 ECTS
NIGK15011U	Geopolitics of Climate Change*	Block 2	7.5 ECTS
NIGK17011U	Spatial and Temporal Pattern Analysis	Block 2	7.5 ECTS

Course Code	Course Title	Block	ECTS
NNDK22001U	Videregående fagdidaktik i naturvidenskabelige fag	Block 2	7.5 ECTS
NIGK15002U	Aerial and Near-field Remote Sensing	Block 3	7.5 ECTS
NIGK21000U	Numerical Modelling in Coastal, Estuarine and Marine Environments	Block 3	7.5 ECTS
LFKK10278U	Project Management	Block 3	7.5 ECTS
NIGK17012U	Remote Sensing in Land Science Studies	Block 3	7.5 ECTS
NIGK15027U	Surface Hydrology*	Block 3	7.5 ECTS
NIFK23006U	Practicing Interdisciplinary Field Research on the Environment	Block 3	15 ECTS
NIGK23005U	Carbon Storage and Biological Interactions in Soil	Block 4	7.5 ECTS
NIGK15005U	Ecological Modelling	Block 4	7.5 ECTS
LNAK10010U	Environmental Impact Assessment	Block 4	7.5 ECTS
NIGK13012U	Human Adaptation to Climate Change and Variability	Block 4	7.5 ECTS
NIGK15021U	Programming, Customization and Automation in GIS	Block 4	7.5 ECTS
NIGK22000U	Satellite Image Processing and Analysis in the Big Data Era	Block 4	7.5 ECTS
NIGK14008U	VVM i praksis*	Block 4	7.5 ECTS
NIGK25000U	Geoengineering	Block 4	7.5 ECTS
NIGK19004U	Marine Geoscience	Block 5	7.5 ECTS
NIGK15006U	Field and Methods Course in Geography and Geoinformatics	Block 1-5	15 ECTS
NFKK14006U	Project in Practice	Block 1-5	15 ECTS

\*The course is not offered in 2026/27

### 6.2.3 Elective subject elements

15 ECTS are to be covered as elective subject elements.

- All subject elements at MSc level may be included as elective subject elements in the MSc Programme.
- BSc subject elements corresponding to 15 ECTS may be included in the MSc Programme.
- Projects. See 6.2.4 Projects.

### 6.2.4 Projects

- Projects outside the course scope (PUK) 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 (PIP) may be included in the elective and/or restricted elective section of the programme with 15 ECTS. PIP may not exceed 15 ECTS in total on the restricted elective and elective section of the programme. PIP 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.
- Thesis preparation projects (PREP) may not be included in the elective section of the programme. The regulations are described in Appendix 6 to the shared section of the curriculum.

### 6.2.5 Thesis

The MSc Programme in Geography and Geoinformatics with a specialisation in Physical Geography includes a thesis corresponding to 45 or 60 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 curriculum makes it possible to follow subject elements outside the Faculty of Science.

The academic mobility for the MSc Programme in Geography and Geoinformatics with a specialisation in Physical Geography (thesis, 45 ECTS) is placed in block 3+4 of the 1<sup>st</sup> year.

The academic mobility for the MSc Programme in Geography and Geoinformatics with a specialisation in Physical Geography (thesis, 60 ECTS) is placed in block 3+4 of the 1<sup>st</sup> year.

Academic mobility requires that the student follows the rules and regulations regarding pre-approval and credit transfer.

In addition, the student has the possibility to arrange similar academic mobility in other parts of the programme.

## 6.3 Human Geography

The specialisation is set at 120 ECTS and consists of the following:

- Compulsory subject elements, 15 ECTS
- Restricted elective subject elements
  - 45 ECTS (thesis, 45 ECTS)
  - 30 ECTS (thesis, 60 ECTS)
- Elective subject elements, 15 ECTS
- Thesis, 45 or 60 ECTS

### 6.3.1 Compulsory subject elements

All of the following subject elements are to be covered (15 ECTS):

Course Code	Course Title	Block	ECTS
NIGK23004U	Environment, Society and Development in the Global South	Block 1	7.5 ECTS
NIGK23013U	Urban and Rural Transformation: Uneven Geographies in the Global North	Block 2	7.5 ECTS

### 6.3.2 Restricted elective subject elements

3) 15 ECTS are to be covered as subject elements from the following list:

Course Code	Course Title	Block	ECTS
NGEK10015U	The Dynamics of City Regions: Social and Economic Change	Block 1	7.5 ECTS
NIGK26004U	Advanced Land System Science	Block 1	7.5 ECTS
NGEK10024U	Globalisation and Dynamics in Global Value Chains	Block 2	7.5 ECTS
NIGK23009U	Rural Landscapes: Transformation and Governance*	Block 2	7.5 ECTS

Course Code	Course Title	Block	ECTS
NGEK11006U	International Migration - Flows, Networks and Diasporas	Block 3	7.5 ECTS
NIGK20001U	Rural-Urban Transformations in the Global South	Block 4	7.5 ECTS

4) 30 ECTS are to be covered as subject elements from the following list (thesis, 45 ECTS):

15 ECTS are to be covered as subject elements from the following list (thesis, 60 ECTS):

Course Code	Course Title	Block	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
NGEK10015U	The Dynamics of City Regions: Social and Economic Change	Block 1	7.5 ECTS
NIGK26004U	Advanced Land System Science	Block 1	7.5 ECTS
NIGK15001U	Advanced Geoinformatics	Block 2	7.5 ECTS
NIGK15011U	Geopolitics of Climate Change*	Block 2	7.5 ECTS
NGEK10024U	Globalisation and Dynamics in Global Value Chains	Block 2	7.5 ECTS
NIGK23009U	Rural Landscapes: Transformation and Governance*	Block 2	7.5 ECTS
NIGK17011U	Spatial and Temporal Pattern Analysis	Block 2	7.5 ECTS
NNDK22001U	Videregående fagdidaktik i naturvidenskabelige fag	Block 2	7.5 ECTS
NIGK17013U	Ecosystems, Climate and Climate Change	Block 2	7.5 ECTS
NIGK15002U	Aerial and Near-field Remote Sensing	Block 3	7.5 ECTS
NGEK11006U	International Migration - Flows, Networks and Diasporas	Block 3	7.5 ECTS
LNAK10066U	Planlægning i det åbne land	Block 3	7.5 ECTS
NIFK23006U	Practicing Interdisciplinary Field Research on the Environment	Block 3	15 ECTS
LFKK10278U	Project Management	Block 3	7.5 ECTS
NIGK17012U	Remote Sensing in Land Science Studies	Block 3	7.5 ECTS
LNAK10010U	Environmental Impact Assessment	Block 4	7.5 ECTS
NIGK13012U	Human Adaptation to Climate Change and Variability	Block 4	7.5 ECTS
NIGK15021U	Programming, Customization and Automation in GIS	Block 4	7.5 ECTS
NIGK20001U	Rural-Urban Transformations in the Global South	Block 4	7.5 ECTS
NIGK22000U	Satellite Image Processing and Analysis in the Big Data Era	Block 4	7.5 ECTS
NIGK14008U	VVM i praksis*	Block 4	7.5 ECTS
NIGK25000U	Geoengineering	Block 4	7.5 ECTS
NIGK15006U	Field and Methods Course in Geography and Geoinformatics	Block 1-5	15 ECTS

Course Code	Course Title	Block	ECTS
NFKK14006U	Project in Practice	Block 1-5	15 ECTS

\*The course is not offered in 2026/27

### 6.3.3 Elective subject elements

15 ECTS are to be covered as elective subject elements.

- All subject elements at MSc level may be included as elective subject elements in the MSc Programme.
- BSc subject elements corresponding to 15 ECTS may be included in the MSc Programme.
- Projects. See 6.3.4 Projects.

### 6.3.4 Projects

- Projects outside the course scope (PUK) may be included in the elective section of the programme by up to 15 ECTS. The regulations are described in Appendix 5 to the shared section of the curriculum.
- Projects in practice (PIP) may be included in the elective and/or restricted elective section of the programme with 15 ECTS. PIP may not exceed 15 ECTS in total on the restricted elective and elective section of the programme. PIP 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.
- Thesis preparation projects (PREP) may not be included in the elective section of the programme. The regulations are described in Appendix 6 to the shared section of the curriculum.

### 6.3.5 Thesis

The MSc Programme in Geography and Geoinformatics with a specialisation in Human Geography includes a thesis corresponding to 45 or 60 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 curriculum makes it possible to follow subject elements outside the Faculty of Science.

The academic mobility for the MSc Programme in Geography and Geoinformatics with a specialisation in Human Geography (thesis, 45 ECTS) is placed in block 3+4 of the 1<sup>st</sup> year.

The academic mobility for the MSc Programme in Geography and Geoinformatics with a specialisation in Human Geography (thesis, 60 ECTS) is placed in block 3+4 of the 1<sup>st</sup> year.

Academic mobility requires that the student follows the rules and regulations regarding pre-approval and credit transfer.

In addition, the student has the possibility to arrange similar academic mobility in other parts of the programme.

## 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 Amendment**

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](http://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 The recommended academic progression

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

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

**Table – Geoinformatics (thesis, 45 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1 <sup>st</sup> year	Remote Sensing of the Bio-Geosphere	Advanced Geoinformatics	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2 <sup>nd</sup> year	Restricted elective	Thesis		
	Restricted elective			

**Table – Geoinformatics (thesis, 60 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1 <sup>st</sup> year	Remote Sensing of the Bio-Geosphere	Advanced Geoinformatics	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2 <sup>nd</sup> year	Thesis			

**Table – Physical Geography (thesis, 45 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1 <sup>st</sup> year	Ecosystems, Climate and Climate Change	Coastal Geoscience	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2 <sup>nd</sup> year	Restricted elective	Thesis		
	Restricted elective			

**Table – Physical Geography (thesis, 60 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1 <sup>st</sup> year	Ecosystems, Climate and Climate Change	Coastal Geoscience	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2 <sup>nd</sup> year	Thesis			

**Table – Human Geography (thesis, 45 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1 <sup>st</sup> year	Environment, Society and Development in the Global South	Urban and Rural Transformation: Uneven Geographies in the Global North	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2 <sup>nd</sup> year	Restricted elective	Thesis		
	Restricted elective			

**Table – Geoinformatics (thesis, 60 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1 <sup>st</sup> year	Environment, Society and Development in the Global South	Urban and Rural Transformation: Uneven Geographies in the Global North	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2 <sup>nd</sup> year	Thesis			

## Tables for students admitted to the programme in February (winter):

**Table – Geoinformatics (thesis, 45 ECTS)**

Period	Block 3	Block 4	Block 1	Block 2
1 <sup>st</sup> year	Restricted elective	Restricted elective	Remote Sensing of the Bio-Geosphere	Advanced Geoinformatics
	Elective	Elective	Restricted elective	Restricted elective
2 <sup>nd</sup> year	Restricted elective	Thesis		
	Restricted elective			

**Table – Geoinformatics (thesis, 60 ECTS)**

Period	Block 3	Block 4	Block 1	Block 2
1 <sup>st</sup> year	Restricted elective	Restricted elective	Remote Sensing of the Bio-Geosphere	Advanced Geoinformatics
	Elective	Elective	Restricted elective	Restricted elective
2 <sup>nd</sup> year	Thesis			

**Table – Physical Geography (thesis, 45 ECTS)**

Period	Block 3	Block 4	Block 1	Block 2
1 <sup>st</sup> year	Restricted elective	Restricted elective	Ecosystems, Climate and Climate Change	Coastal Geoscience
	Elective	Elective	Restricted elective	Restricted elective
2 <sup>nd</sup> year	Restricted elective	Thesis		
	Restricted elective			

**Table – Physical Geography (thesis, 60 ECTS)**

Period	Block 3	Block 4	Block 1	Block 2
1 <sup>st</sup> year	Restricted elective	Restricted elective	Ecosystems, Climate and Climate Change	Coastal Geoscience
	Elective	Elective	Restricted elective	Restricted elective
2 <sup>nd</sup> year	Thesis			

**Table – Human Geography (thesis, 45 ECTS)**

Period	Block 3	Block 4	Block 1	Block 2
1 <sup>st</sup> year	Restricted elective	Restricted elective	Environment, Society and Development in the Global South	Urban and Rural Transformation: Uneven Geographies in the Global North
	Elective	Elective	Restricted elective	Restricted elective
2 <sup>nd</sup> year	Restricted elective	Thesis		
	Restricted elective			

**Table – Geoinformatics (thesis, 60 ECTS)**

Period	Block 3	Block 4	Block 1	Block 2
1 <sup>st</sup> year	Restricted elective	Restricted elective	Environment, Society and Development in the Global South	Urban and Rural Transformation: Uneven Geographies in the Global North
	Elective	Elective	Restricted elective	Restricted elective
2 <sup>nd</sup> year	Thesis			

## 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 2025/26, 2024/25, 2023/24

Students admitted to the MSc programme in the academic year 2025/26, 2024/25 or 2023/24 must finish the programme as listed in the curriculum above with the following exceptions.

#### 1.1 Geoinformatics

##### Restricted elective subject elements

Up to 30 ECTS (thesis 45 ECTS) or up to 15 ECTS (thesis 60 ECTS) are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 2 of the specialisation in Geoinformatics in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS
NIGK17014U	Coastal Geoscience	Discontinued*	7.5 ECTS
NIGK23007U	Glacial Geoscience	Discontinued*	7.5 ECTS
NIGK15022U	Project Course in Geography and Geoinformatics	Discontinued*	7.5 ECTS

\*See discontinued courses below.

#### 1.2 Physical Geography

##### Table

Period	Block 1	Block 2	Block 3	Block 4
1 <sup>st</sup> year	Ecosystems, Climate and Climate Change	<i>Glacial Geoscience</i>	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective

*Subject elements in italics have been discontinued. See discontinued courses below.*

##### Restricted elective subject elements

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

Restricted elective subject elements offered as part of list 1 of the specialisation in Physical Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK17014U	Coastal Geoscience	Discontinued*	7.5 ECTS
NIGK26003U	Coastal Geoscience	Block 1	7.5 ECTS

Up to 30 ECTS (thesis 45 ECTS) or up to 15 ECTS (thesis 60 ECTS) are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 2 of the specialisation in Physical Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS
NIGK15022U	Project Course in Geography and Geoinformatics	Discontinued*	7.5 ECTS

\*See discontinued courses below.

### 1.3 Human Geography

#### Restricted elective subject elements

At least 15 ECTS are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 1 of the specialisation in Human Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS

\*See discontinued courses below.

Up to 30 ECTS (thesis 45 ECTS) or up to 15 ECTS (thesis 60 ECTS) are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 2 of the specialisation in Human Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS
NIGK15022U	Project Course in Geography and Geoinformatics	Discontinued*	7.5 ECTS

\*See discontinued courses below.

## 2 General changes for students admitted in the academic year 2022/23

Students admitted to the MSc programme in the academic year 2022/23 must finish the programme as listed in the curriculum above with the following exceptions.

### 2.1 Geoinformatics

#### Restricted elective subject elements

Up to 30 ECTS (thesis 45 ECTS) or up to 15 ECTS (thesis 60 ECTS) are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 2 of the specialisation in Geoinformatics in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NGEK10018U	Countryside Planning: Policies, Processes and Regulation	Discontinued*	7.5 ECTS
NIGK17008U	Environment, Society and Development	Discontinued*	7.5 ECTS
NIGK14055U	Interdisciplinary Project Course	Discontinued*	7.5 ECTS
NIGK17017U	Glacial, Fluvial and Estuarine Geoscience	Discontinued*	7.5 ECTS
NGEK10027U	Project Management and Planning	Discontinued*	7.5 ECTS
NIGK17015U	Transformation of Cities and Landscapes: Globalisation and Local Strategies	Discontinued*	7.5 ECTS

Restricted elective subject elements offered as part of list 2 of the specialisation in Geoinformatics in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK22001U	Use of Stable Isotopes for Advanced Studies of Environmental and Soil Biogeochemical Processes	Discontinued*	7.5 ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS
NIGK15022U	Project Course in Geography and Geoinformatics	Discontinued*	7.5 ECTS
NIGK17004U	Coastal Geoscience	Discontinued*	7.5 ECTS
NIGK23007U	Glacial Geoscience	Discontinued*	7.5 ECTS

\*See discontinued courses below.

## 2.2 Physical Geography

**Table – Physical Geography (thesis, 45 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1st year	<b>Ecosystems, Climate and Climate Change*</b>	<i>Glacial, Fluvial and Estuarine Geoscience</i>	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2nd year	Restricted elective	Thesis		
	Restricted elective			

\*The course is now offered in block 2

*Subject elements in italics have been discontinued. See discontinued courses below.*

**Table – Physical Geography (thesis, 60 ECTS)**

Period	Block 1	Block 2	Block 3	Block 4
1st year	<b>Ecosystems, Climate and Climate Change*</b>	<i>Glacial, Fluvial and Estuarine Geoscience</i>	Restricted elective	Restricted elective
	Restricted elective	Restricted elective	Elective	Elective
2nd year	Thesis			

\*The course is now offered in block 2

*Subject elements in italics have been discontinued. See discontinued courses below.*

### Restricted elective subject elements

At least 15 ECTS are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 1 of the specialisation in Physical Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK22001U	Use of Stable Isotopes for Advanced Studies of Environmental and Soil Biogeochemical Processes	Discontinued*	7.5 ECTS
NIGK17014U	Coastal Geoscience	Discontinued*	7.5 ECTS
NIGK26003U	Coastal Geoscience	Block 1	7.5 ECTS

\*See discontinued courses below.

Up to 30 ECTS (thesis 45 ECTS) or up to 15 ECTS (thesis 60 ECTS) are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 2 of the specialisation in Physical Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK17008U	Environment, Society and Development	Discontinued*	7.5 ECTS
NIGK14055U	Interdisciplinary Project Course	Discontinued*	7.5 ECTS
NGEK10027U	Project Management and Planning	Discontinued*	7.5 ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS
NIGK15022U	Project Course in Geography and Geoinformatics	Discontinued*	7.5 ECTS

\*See discontinued courses below.

## 2.3 Human Geography

### Compulsory subject elements

All of the following subject elements are to be covered (15 ECTS):

Course Code	Course Title	Block	ECTS
NIGK17008U	Environment, Society and Development	Discontinued*	7.5 ECTS
NIGK17015U	Transformation of Cities and Landscapes: Globalisation and Local strategies	Discontinued*	7.5 ECTS

\*See discontinued courses below.

### Restricted elective subject elements

At least 15 ECTS are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 1 of the specialisation in Human Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NGEK10018U	Countryside Planning: Policies, Processes and Regulation	Discontinued*	7.5 ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS

\*See discontinued courses below.

Up to 30 ECTS (thesis 45 ECTS) or up to 15 ECTS (thesis 60 ECTS) are to be covered as subject elements from the following list:

Restricted elective subject elements offered as part of list 2 of the specialisation in Human Geography in this curriculum (see above)			
Course Code	Course Title	Block	ECTS
NIGK14055U	Interdisciplinary Project Course	Discontinued*	7.5 ECTS
NGEK10027U	Project Management and Planning	Discontinued*	7.5 ECTS
NIGK14009U	Land Use Transitions in the Global South	Discontinued*	7.5 ECTS
NIGK15022U	Project Course in Geography and Geoinformatics	Discontinued*	7.5 ECTS

\*See discontinued courses below.

### 3 Discontinued courses

Course Code	Course Title	ECTS	Interim arrangement
NIGK17007U	Advanced Soil Science and Isotope Geochemistry	7.5	The course was restricted elective in the academic year 2021/22, and 2020/21 on the specialisations in Geoinformatics and Physical Geography.  Offered for the last time: 2021/22.
NIGK17014U	Coastal Geoscience	7.5	The course was restricted elective in the academic year 2025/26 and earlier on the specialisation in Physical Geography and Geoinformatics.  Offered for the last time: 2025/26.  The course has changed censorship and is replaced by NIGK26003U Coastal Geoscience.
NGEK10018U	Countryside Planning: Policies, Processes and Regulation	7.5	The course was a restricted elective course in the academic year 2022/23, 2021/22 and 2020/21 on the specialisations in Geoinformatics and Human Geography.  Offered for the last time: 2022/23.  Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.
NIGK17008U	Environment, Society and Development	7.5	The course was a restricted elective course in the academic year 2022/23, 2021/22 and 2020/21 on the specialisations in Geoinformatics and Physical Geography.  Offered for the last time: 2022/23.

Course Code	Course Title	ECTS	Interim arrangement
			<p>The course was compulsory in the academic year 2022/23, 2021/22 and 2020/21 on the specialisation in Human Geography.</p> <p>Offered for the last time: 2022/23.</p> <p>The course is replaced by NIGK23004U Environment, Society and Development in the Global South, 7.5 ECTS.</p>
NIGK17017U	Glacial, Fluvial and Estuarine Geoscience	7.5	<p>The course was a restricted elective course in the academic year 2022/23, 2021/22 and 2020/21 on the specialisation in Geoinformatics.</p> <p>Offered for the last time: 2022/23.</p> <p>Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.</p>
			<p>The course was compulsory in the academic year 2022/23, 2021/22 and 2020/21 on the specialisation in Physical Geography.</p> <p>Offered for the last time: 2022/23.</p> <p>The course is replaced by NIGK23007U Glacial Geoscience, 7.5 ECTS.</p>
NIGK23007U	Glacial Geoscience	7.5	<p>The course was compulsory on the specialisation in Physical Geography and restricted elective on the specialisation Geoinformatics in the academic year 2025/26, 2024/25 and 2023/24.</p> <p>Offered for the last time: 2025/26.</p> <p>The course has changed censorship and is replaced by NIGK26002U Glacial Geoscience.</p>

<b>Course Code</b>	<b>Course Title</b>	<b>ECTS</b>	<b>Interim arrangement</b>
NIGK14055U	Interdisciplinary Project Course	7.5	<p>The course was a restricted elective course in the academic year 2022/23, 2021/22 and 2020/21 on the specialisations in Geoinformatics, Physical Geography and Human Geography.</p> <p>Offered for the last time: 2022/23.</p> <p>Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.</p>
NIGK14009U	Land Use Transitions in the Global South	7.5	<p>The course was a restricted elective course in the academic year 2025/26 and earlier on the specialisations in Geoinformatics, Physical Geography and Human Geography.</p> <p>Offered for the last time: 2025/26.</p> <p>Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2026/27.</p>
NGEA09056U	Numerical Modelling in Fluvial, Coastal, Estuarine and Marine Environments	7.5	<p>The course was a restricted elective course in the academic year 2020/21 and earlier on the specialisations in Geoinformatics and Physical Geography.</p> <p>Offered for the last time: 2020/21.</p> <p>The course is identical to NIGK21000U Numerical Modelling in Coastal, Estuarine and Marine Environments, 7.5 ECTS.</p>
NIGK15022U	Project Course in Geography and Geoinformatics	7.5	<p>The course was a restricted elective course in the academic year 2025/26 and earlier on the specialisations in Geoinformatics, Physical Geography and Human Geography.</p> <p>Offered for the last time: 2024/25.</p> <p>Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2025/26.</p>

<b>Course Code</b>	<b>Course Title</b>	<b>ECTS</b>	<b>Interim arrangement</b>
NGEK10027U	Project Management and Planning	7.5	<p>The course was a restricted elective course in the academic year 2022/23, 2021/22 and 2020/21 on the specialisations in Geoinformatics, Physical Geography and Human Geography.</p> <p>Offered for the last time: 2022/23.</p> <p>Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.</p>
NIGK17015U	Transformation of Cities and Landscapes: Globalisation and Local Strategies	7.5	<p>The course was a restricted elective course in the academic year 2022/23, 2021/22 and 2020/21 on the specialisation in Geoinformatics.</p> <p>Offered for the last time: 2022/23.</p> <p>Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.</p>
			<p>The course was compulsory in the academic year 2022/23, 2021/22 and 2020/21 on the specialisation in Human Geography.</p> <p>Offered for the last time: 2022/23.</p> <p>The course is identical to NIGK23013U Urban and Rural Transformation: Uneven Geographies in the Global North, 7.5 ECTS.</p>
NIGK22001U	Use of Stable Isotopes for Advanced Studies of Environmental and Soil Biogeochemical Processes	7.5	<p>The course was a restricted elective course in the academic year 2022/23 on the specialisations in Geoinformatics, and Physical Geography.</p> <p>Offered for the last time: 2022/23.</p> <p>Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.</p>

## 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 carry out development assignments in a work context.