Module Catalogue
for the Subject
Geography (Focus Physical Geography)
as a major in a Bachelor’s degree programme
with the degree "Bachelor of Science"
(120 ECTS credits)

Examination regulations version: 2015
Responsible: Faculty of Arts, Historical, Philological, Cultural and Geographical Studies
Responsible: Institute of Geography and Geology
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Content and Objectives of the Programme

no translation available
Abbreviations used

Course types: E = field trip, K = colloquium, O = conversatorium, P = placement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, V = lecture

Term: SS = summer semester, WS = winter semester

Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed

Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules

Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

ASPO2015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

28-Sep-2015 (2015-164)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.
Compulsory Courses

(55 ECTS credits)
General Physical Geography
(ECTS credits)
Module title
General Physical Geography: Exogenic Dynamics - Geomorphology

Abbreviation
04-Geo-PG1Ex-152-m01

Module coordinator
holder of the Professorship of Physical Geography

Module offered by
Institute of Geography and Geology

ECTS
5

Method of grading
numerical grade

Only after succ. compl. of module(s)
--

Duration
1 semester

Module level
undergraduate

Other prerequisites
--

Contents
Erosion and accumulation processes and accumulation results: gravitative, fluvial, glacial and periglacial, Aeolian, marin, littoral, solution; monoprocessual large forms, e.g. endogenous/tectonic forms like volcanoes, break clod, fold mountains or Aeolian "Draas" (huge dunes), deflation (enclosed) basins; - polyprocessual large forms, e.g. glacial series, shape of coastlines, escarpments

Intended learning outcomes
Students dispose over the following knowledge: basics of the system earth, i.e. the understanding of processes that are dominating the landscape on the Earth’s surface and which are driven by the geological factors rocks, relief, climate, soil, water, flora and fauna. These are decisive for understanding the structure, function and dynamics of the natural environment and its anthropogenic transformation (the environment that has been shaped from humans by land utilisation, settlements, transport routes etc.).

Courses
(type, number of weekly contact hours, language — if other than German)
V (3) + T (1)
Module taught in: German and/or English

Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 45 minutes)
Language of assessment: German and/or English creditable for bonus

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
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<tr>
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<tbody>
<tr>
<td>holder of the Professorship of Geodynamics and Geomaterials Research</td>
<td>Institute of Geography and Geology</td>
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**Contents**

Introduction to "Physical Geography": basics of endogenous dynamics: formation/structure of the Earth, features of important rock forming, ecologically important minerals, volcanism/igneous rocks, plutonism/magma genesis, sediments/sedimentary rocks, metamorphosis; geological structures, ocean floor, plate tectonics, earthquakes, orogenesis, continental crust, distribution of mineral raw materials

**Intended learning outcomes**

The students dispose over basic knowledge of endogenous dynamics

**Courses** (type, number of weekly contact hours, language — if other than German)

V (3) + T (1)

Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 45 minutes)

Language of assessment: German and/or English

creditable for bonus

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

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<td>General Physical Geography: Climate System</td>
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**Module coordinator**  
holder of the Professorship of Climatology

**Module offered by**  
Institute of Geography and Geology

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**Duration**  
1 semester

**Module level**  
undergraduate

**Other prerequisites**  
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**Contents**  
The following basics of the Earth's climate system will be presented: terrestrial and celestial mechanical basics; radiation and energy; vertical and horizontal flow dynamics; data sources, characteristics and variability of the Earth's climate system.

**Intended learning outcomes**  
The students will gain a basic physical understanding of the Earth's climate system.

**Courses**  
(type, number of weekly contact hours, language — if other than German)

**V (3)**  
Module taught in: German and/or English

**Method of assessment**  
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 45 minutes)  
Language of assessment: German and/or English

**Allocation of places**  
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**Additional information**  
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**Referred to in LPO I**  
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<tr>
<td>holder of the Professorship of Geography and Regional Science</td>
<td>Institute of Geography and Geology</td>
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**Contents**

Introduction to “Settlement Geography”, students will deal with the following topic areas:
- geographical urbanism,
- Geography of rural settlements,
- urban system research,
- urbanisation,
- regional urban types,
- theories of urban development,
- city models

**Intended learning outcomes**

Students dispose over basic knowledge of Urban Geography as well as Geography of Rural Settlements.

**Courses** (type, number of weekly contact hours, language — if other than German)

V (3) Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 45 minutes)
Language of assessment: German and/or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

§ 47 I Nr. 1
§ 66 I Nr. 1
Module title: General Human Geography: Introduction to Economic Geography

Abbreviation: 04-Geo-HG1W-152-m01

Module coordinator: holder of the Professorship of Economic Geography

Module offered by: Institute of Geography and Geology

ECTS: 5

Method of grading: numerical grade

Duration: 1 semester

Module level: undergraduate

Other prerequisites: --

Contents:
Introduction to basic concepts as well as fundamental contents and methods of "Economic Geography". Topics of theoretical "Economic Geography" like the choice of location and system, structure and dynamics of the economic sector, the geographical influence of groups of players and geographical imbalance will be covered. The examination of theories will be made with the help of typical examples and empirical knowledge.

Intended learning outcomes:
Students dispose over knowledge skills of Economic Geography concerning terms, contents and methods.

Courses:
V (3)
Module taught in: German and/or English

Method of assessment:
written examination (approx. 45 minutes)
Language of assessment: German and/or English

Allocation of places:
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Additional information:
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<tr>
<td>holder of the Professorship of Social Geography</td>
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**Contents**

Introduction to basic concepts as well as fundamental contents and methods of social and "Population Geography". In particular, topics of geographical "Population Geography" and structure, population movement, geographical society research, Vienna-Munich School of Social Geography, social spatial analysis as well as perception, behaviour and action-theoretical approaches will be covered.

**Intended learning outcomes**

Students acquire a basic understanding of population and socio-geographical issues. They dispose over skills of central population and socio-geographical terms, scientific approaches and theories as well as of acquired possibilities and their implementation on issues of the Applied Population and Social Geography.

**Courses**

(type, number of weekly contact hours, language — if other than German)

V (3)

Module taught in: German and/or English

**Method of assessment**

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 45 minutes)

Language of assessment: German and/or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO I**

(examination regulations for teaching-degree programmes)

§ 47 I Nr. 1

§ 66 I Nr. 1
Spezielle Physische Geographie
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<td>holder of the Chair of Soil Geography</td>
<td>Institute of Geography and Geology</td>
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### Contents

The module focuses the geofactors bedrock, topography, climate, soils, water, and plants and their relevance for landscape forming processes as well as for land-use. Basic geofactors of natural landscapes related to anthropogenic impact (land-use, settlements, infrastructure, etc.) will be discussed.

### Intended learning outcomes

The students learn synthesis and integration of their knowledge on geofactors. They are able to consider natural and cultural aspects for site-specific and planning assessment.

### Courses (type, number of weekly contact hours, language — if other than German)

V (2)

Module taught in: German and/or English

### Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 45 minutes)

Language of assessment: German and/or English

### Allocation of places

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### Additional information

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### Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 66 I Nr. 2
Working methods of Physical Geography
(ECTS credits)
# Module Catalogue for the Subject Geography (Focus Physical Geography)

major in a Bachelor's degree programme, 120 ECTS credits

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<tr>
<td>holder of the Professorship of Climatology</td>
<td>Institute of Geography and Geology</td>
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## Contents

This module is dedicated to an advanced methodical knowledge of data analysis in "Physical Geography". There are several alternative courses, e.g. dealing with climatological measurements, climate modelling, geophysical methods, pedologic field methods, remote sensing and advanced GIS applications.

## Intended learning outcomes

The students improve their methodical skills in terms of cartography, data analysis, statistics, lab techniques, modelling and IT techniques, exemplified by means of scientific projects.

## Courses

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Module taught in: German and/or English

## Method of assessment

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) presentation (approx. 30 minutes) or d) portfolio (approx. 20 pages, including 3 maps, 2 logs) or e) term paper (approx. 20 pages)

Language of assessment: German and/or English

## Allocation of places

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## Additional information

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## Referred to in LPO I

(Examination regulations for teaching-degree programmes)

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<td>Natural landscape analysis</td>
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<tr>
<td>holder of the Professorship of Soil Science</td>
<td>Institute of Geography and Geology</td>
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**Contents**

The module aims to deepen basic knowledge by means of selected landscapes. Theme category groups related to "Physical Geography" are generated by exemplary landscape units. The teaching approach is realised by the application of maps, digital elevation models, geodata, scientific publications as well as by specific problems.

**Intended learning outcomes**

Students learn to apply basic physical-geographic knowledge in landscapes. They gain competences in the practice of geographic working tools.

**Courses** (type, number of weekly contact hours, language — if other than German)

S (2)

Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) presentation (approx. 30 minutes) or d) portfolio (approx. 20 pages, including 3 maps, 2 logs) or e) term paper (approx. 20 pages)

Language of assessment: German and/or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO 1** (examination regulations for teaching-degree programmes)

§ 66 I Nr. 2
Statistics and Cartography 1
(ECTS credits)
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<td>Statistics: Fundamentals of Descriptive and Inferential Statistics</td>
<td>04-Geo-STATU-152-m01</td>
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<tbody>
<tr>
<td>holder of the Professorship of Climatology</td>
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**Contents**

The basics of univariate statistics will be presented, including descriptive statistics, test statistics and measures of correlation.

**Intended learning outcomes**

The students achieve methodical skills in terms of univariate statistical methods and data analysis.

**Courses**

(type, number of weekly contact hours, language — if other than German)

V (2) + T (2)

Module taught in: German and/or English

**Method of assessment**

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes)

Language of assessment: German and/or English

**Allocation of places**

--

**Additional information**

--

**Referred to in LPO I**

(examination regulations for teaching-degree programmes)

--
### Module Catalogue for the Subject Geography (Focus Physical Geography) major in a Bachelor’s degree programme, 120 ECTS credits

<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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</thead>
<tbody>
<tr>
<td>Cartography and Geoinformation</td>
<td>04-Geo-KART-152-m01</td>
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<table>
<thead>
<tr>
<th>Module coordinator</th>
<th>Module offered by</th>
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<tbody>
<tr>
<td>holder of the Professorship of Geography and Regional Science</td>
<td>Institute of Geography and Geology</td>
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<th>Method of grading</th>
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<th>Duration</th>
<th>Module level</th>
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</thead>
<tbody>
<tr>
<td>1 semester</td>
<td>undergraduate</td>
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</tbody>
</table>

### Contents

Introduction to "Cartography" as well as to geodata collection and processing with focus on map projection teaching and map grids, topographical cartography, topical cartography and GIS/geographic information.

### Intended learning outcomes

Students achieve fundamental skills in the area of Cartography and in the systematic dealing with geoinformation.

### Courses

- **Type**: V (2) + T (2)
- **Number of weekly contact hours**: German and/or English

### Method of assessment

- **Type**: written examination (approx. 75 minutes)
- **Scope**: Language of assessment: German and/or English
- **Language**: creditable for bonus

### Allocation of places

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### Additional information

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### Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 66 I Nr. 2
Compulsory Electives
(35 ECTS credits)

Students may select any of the modules from the module groups below.
Statistics and Cartography 2

(ECTS credits)
<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>Statistics: Special and Multivariate Procedures</td>
<td>04-Geo-STATM-152-m01</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>holder of the Professorship of Climatology</td>
<td>Institute of Geography and Geology</td>
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</thead>
<tbody>
<tr>
<td>1 semester</td>
<td>undergraduate</td>
<td>--</td>
</tr>
</tbody>
</table>

### Contents

The basics of multivariate statistics will be presented, including multiple regression, spectral analysis and eigenvalue techniques.

### Intended learning outcomes

The students achieve methodical skills in terms of multivariate statistical methods and data analysis.

### Courses

(type, number of weekly contact hours, language — if other than German)

V (2) + T (2)

Module taught in: German and/or English

### Method of assessment

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes)

Language of assessment: German and/or English

### Allocation of places

--

### Additional information

--

### Referred to in LPO I (examination regulations for teaching-degree programmes)

--
## Module Catalogue for the Subject Geography (Focus Physical Geography) major in a Bachelor’s degree programme, 120 ECTS credits

<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tbody>
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<td>Geographical Information Systems (GIS)</td>
<td>04-Geo-GIS-152-m01</td>
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</thead>
<tbody>
<tr>
<td>1 semester</td>
<td>undergraduate</td>
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</tr>
</tbody>
</table>

## Contents

Introduction to GIS; application examples from Geography, earth and environmental sciences; introduction to GIS ArcGIS; data models to GIS: factual and geometrical data (vector and grid data); geometrical, topological and topical data modelling; data administration with ArcGIS (ArcCatalog); conception and structure of a GIS project (ArcGIS); plain principle, meta data, data format, attribute data; relational data model; software components of ArcGIS (ArcMap, ArcToolbox, ArcInfo Workstation); data acquisition and preparation of geometrical and factual data (digitisation, measurement); administration of geometrical and factual data (introduction to structure of a geodatabase); geographical analysis of geodata (linkage, intersection, topical and geographical queries, geographical interpolation, terrain analysis from digital elevation data); interpretation, visualisation and result presentation of geodata (signatures, diagrams and map design, topical maps)

## Intended learning outcomes

Students achieve knowledge of the type and development, management, processing and presenting of geographical data. They acquire skills in dealing with GIS and in the organisation of GIS projects as well as in the processing and interpretation of spatial analysis of GIS (GIS software).

## Courses

(type, number of weekly contact hours, language — if other than German)

S (2)
Module taught in: German and/or English

## Method of assessment

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

Portfolio (approx. 20 pages, including 3 maps, 2 logs)
Language of assessment: German and/or English

## Allocation of places

--

## Additional information

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## Referred to in LPO I
(examination regulations for teaching-degree programmes)

--
Special and Applied Physical Geography
(ECTS credits)
Module title: Special Problems of Physical Geography 2 (Earth System: Man and Environment)
Abbreviation: 04-Geo-SPG2-152-m01

Module coordinator: holder of the Chair of Soil Geography
Module offered by: Institute of Geography and Geology

ECTS: 5
Method of grading: numerical grade
Duration: 1 semester
Module level: undergraduate
Other prerequisites: --

Contents:
The module serves to deepen the skills in "Special Physical Geography". Selected geofactors and applied problems are in the center of courses.

Intended learning outcomes:
The module deepens student's knowledge on selected geofactors and their relevance for applied requests.

Courses:
S (2)
Module taught in: German and/or English

Method of assessment:
Presentation (approx. 30 minutes) with related term paper (approx. 20 pages)
Language of assessment: German and/or English

Allocation of places:
--

Additional information:
--

Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 66 I Nr. 2
### Module title
Special Problems of Physical Geography 3 (Earth System: Man and Environment)

### Abbreviation
04-Geo-SPG3-152-m01

### Module coordinator
holder of the Professorship of Climatology

### Module offered by
Institute of Geography and Geology

<table>
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<td>numerical grade</td>
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### Duration
1 semester

### Module level
undergraduate

### Contents
This module comprises a large spectrum of special lectures on selected topics of “Physical Geography” and “Geology”.

### Intended learning outcomes
The students gain a deeper insight into a selected topic and, hence, get the opportunity of orientation for their Bachelor theses and their further education or profession.

### Courses
(V, number of weekly contact hours, language — if other than German)
- V (2)
  - Module taught in: German and/or English

### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
- written examination (approx. 45 minutes)
- Assessment offered: Once a year, winter semester
- Language of assessment: German and/or English

### Allocation of places
--

### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)
- § 66 I Nr. 2
<table>
<thead>
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<th>Module title</th>
<th>Abbreviation</th>
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<td>Applied physical geography</td>
<td>04-Geo-PPG-152-m01</td>
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<td>Institute of Geography and Geology</td>
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<tbody>
<tr>
<td>2 semester</td>
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</table>

**Contents**

This module consists of an applied project dealing with a specific issue in "Physical Geography" and comprising the following procedures: data collection, data analysis and presentation of results.

**Intended learning outcomes**

The students learn how to practically implement a given objective in Physical Geography. They also gain experience in independent and autonomous teamwork.

**Courses** (type, number of weekly contact hours, language — if other than German)

S (4)
Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

- a) project (approx. 30 pages) or b) presentation (approx. 30 minutes) or c) term paper (approx. 20 pages)
- Assessment offered: Once a year, summer semester
- Language of assessment: German and/or English

**Allocation of places**

max. 20 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters with the individual student's progression through their degree programme being taken into account. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.

**Additional information**

--

**Referred to in LPO** I (examination regulations for teaching-degree programmes)

--
Working methods of Physical Geography
(ECTS credits)
Module title
Methods of Physical Geography 2

Abbreviation
04-Geo-MPG2-152-m01

Module coordinator
holder of the Professorship of Soil Science

Module offered by
Institute of Geography and Geology

ECTS
5

Method of grading
numerical grade

Only after succ. compl. of module(s)
--

Duration
1 semester

Module level
undergraduate

Other prerequisites
--

Contents
This module is dedicated to an advanced methodical knowledge of data analysis in "Physical Geography". There are several alternative courses, e.g. dealing with climatological measurements, climate modelling, geophysical methods, pedologic methods, remote sensing and advanced GIS applications.

Intended learning outcomes
The students improve their methodical skills in terms of cartography, data analysis, statistics, lab techniques, modelling and IT techniques, exemplified by means of scientific projects.

Courses
(type, number of weekly contact hours, language — if other than German)

Ü (2)
Module taught in: German and/or English

Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) presentation (approx. 30 minutes) or d) portfolio (approx. 20 pages, including 3 maps, 2 logs) or e) term paper (approx. 20 pages)
Assessment offered: Once a year, summer semester
Language of assessment: German and/or English

Allocation of places
20 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters with the individual student's progression through their degree programme being taken into account. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 66 I Nr. 2
Methods of Physical Geography 3

<table>
<thead>
<tr>
<th>Abbreviation</th>
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</table>

**Module coordinator**
holder of the Professorship of Geodynamics and Geomaterials Research

**Module offered by**
Institute of Geography and Geology

**ECTS** | **5**
---|---
**Method of grading** | numerical grade
**Only after succ. compl. of module(s)** | --

**Duration** | **1 semester**
---|---
**Module level** | undergraduate
**Other prerequisites** | --

**Contents**
Basic observations on geological materials that can already be made in the field and which can lead to a first interpretation of geological processes, which took place, as well as the creation of value of geomaterials. Students will be provided with distinctive features and characteristics of the most important rock-forming and economically relevant minerals by means of chosen visuals. Subsequently, the classification of the most important sedimentary, igneous and metamorphic rock types will be elucidated and practiced on the basis of their in the hand-piece identifiable mineral existence and structure. In the following modular section, the understanding of two-dimensional display of three-dimensional display of geological phenomena like the geographical distribution of different rock types or tectonic structures will be developed in form of geological maps and sections as well as simple structural-geological diagrams.

**Intended learning outcomes**
Students are able to identify the most important mineral types and as far as possible, to outline and interpret the rock samples without analytical tools. Moreover, they are able to interpret geological maps correctly and to show geological field observations in map form, profiles and suitable diagrams.

**Courses** (type, number of weekly contact hours, language — if other than German)

Ü (2)
Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) or c) presentation (approx. 30 minutes) or d) portfolio (approx. 20 pages, including 3 maps, 2 logs) or e) term paper (approx. 20 pages)
Assessment offered: Once a year, summer semester
Language of assessment: German and/or English

**Allocation of places**
15 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters with the individual student's progression through their degree programme being taken into account. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.

**Additional information**
--

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

§ 66 I Nr. 2
Remote Sensing

(ECTS credits)
### Module title
Introduction to Geographical Remote Sensing

### Abbreviation
04-Geo-FERNE-152-m01

### Module coordinator
holder of the Professorship of Remote Sensing

### Module offered by
Institute of Geography and Geology

### ECTS
5

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
--

### Duration
1 semester

### Module level
undergraduate

### Other prerequisites
--

### Contents
The lecture gives an overview of the principles of remote sensing, that are: theoretical basics, history of remote sensing / physical principles (energy and radiation, interactions radiation - atmosphere, interactions radiation - surfaces, objects under investigation: soils, vegetation, water) / thermal remote sensing: radiation laws, radiant temperature, emissivity / detectors: characterisation of remote sensing data, platforms and sensors (passive and active systems, e.g. hyperspectral and LiDAR) / radar remote sensing / radar interferometry / basics for remote sensing parameters (land, atmosphere, oceans).

### Intended learning outcomes
The students describe basics of earth observation. They outline and explain the radiation path through the atmosphere to the object under investigation and back to the sensor. They emphasise essential characteristics of remote sensing data, sensors and platforms.

### Courses
(type, number of weekly contact hours, language — if other than German)

<table>
<thead>
<tr>
<th>Type</th>
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<th>Language</th>
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<tr>
<td>T</td>
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Module taught in: German and/or English

### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

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<tr>
<td>written examination</td>
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### Allocation of places
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### Additional information
--

### Referred to in LPO I
(examination regulations for teaching-degree programmes)

§ 66 I Nr. 2
Module title
Applications of Remote Sensing in Geography

Abbreviation
04-Geo-FERNA-152-m01

Module coordinator
holder of the Professorship of Remote Sensing

Module offered by
Institute of Geography and Geology

ECTS
5

Method of grading
numerical grade

Only after succ. compl. of module(s)
--

Duration
1 semester

Module level
undergraduate

Other prerequisites
--

Contents
The lecture imparts basic knowledge about the analysis of remote sensing data for geographical questions. First, fundamental understanding of remotely sensed data as geoinformation and later geoinformation in general (geographical data, metadata, spatial overlaying of geodata, geographical information systems) is given. Following topics are analogue, visual image interpretation, digital image processing (calibration, transformation, filter) and atmospheric correction. A focus lies on the digital remote sensing based mapping, i.e. spectral analysis, classification and change detection. Furthermore, basics in modelling of remote sensing parameters is conveyed.

Intended learning outcomes
The students explain applications of earth observation and remote sensing. They explain geographical data and reflect their essential characteristics. They summarise fundamental aspects of (digital) image processing and assess different methodological approaches for the evaluation of remote sensing data for geographical questions.

Courses
(type, number of weekly contact hours, language — if other than German)
V (2) + T (2)
Module taught in: German and/or English

Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
written examination (approx. 45 minutes)
Language of assessment: German and/or English
creditable for bonus

Allocation of places
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Additional information
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Referred to in LPO I
(examination regulations for teaching-degree programmes)
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Regional Geography
(ECTS credits)
<table>
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<tr>
<td>Regional Geography - Lecture course 1</td>
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<tbody>
<tr>
<td>holder of the Professorship of Physical Geography</td>
<td>Institute of Geography and Geology</td>
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<tbody>
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<td>1 semester</td>
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</table>

**Contents**

Issues of "General Geography" in terms of European subspaces. This can be individual states as well as distinctive European subspaces due to their lay (e.g. Northern Europe, Alpine countries).

**Intended learning outcomes**

Students dispose over the following skills: Students will apply general-geographical skills to regional-related issues, particularly the partial steps: 1. Differentiation and characterisation of a region, 2. Emphasis on specific problems and spatial interactions as well as 3. Synthesis and demonstration of perspectives/problem solutions with thematic emphasis.

**Courses** (type, number of weekly contact hours, language — if other than German)

V (2)

Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 15 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)

Language of assessment: German and/or English

**Allocation of places**

--

**Additional information**

--

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

§ 47 I Nr. 2
§ 66 I Nr. 1
## Module title
Regional Geography - Lecture course 2  

### Abbreviation
04-Geo-RG-V2-152-m01

### Module coordinator
holder of the Professorship of Physical Geography

### Module offered by
Institute of Geography and Geology

### ECTS
5

### Method of grading
numerical grade

### Duration
1 semester

### Module level
undergraduate

### Other prerequisites
--

### Contents
Issues of "General Geography" in terms of global subspaces. This can be individual continents as well as distinctive subspaces due to their lay like North America or the Arabian Peninsula.

### Intended learning outcomes
Students dispose over the following skills: Students will apply general-geographical skills to regional-related issues, particularly the partial steps: 1. Differentiation and characterisation of a region, 2. Emphasis on specific problems and spatial interactions as well as 3. Synthesis and demonstration of perspectives/problem solutions with thematic emphasis.

### Courses
(V (2)
Module taught in: German and/or English

### Method of assessment
(a) written examination (approx. 45 minutes) or (b) oral examination of one candidate each (approx. 15 minutes) or (c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate)

Language of assessment: German and/or English

### Allocation of places
--

### Additional information
--

### Referred to in LPO I
(examination regulations for teaching-degree programmes)

§ 47 I Nr. 2  
§ 66 I Nr. 1
Module title
Regional Geography - Seminar 1

Abbreviation
04-Geo-RG-S1-152-m01

Module coordinator
holder of the Professorship of Physical Geography

Module offered by
Institute of Geography and Geology

ECTS
5

Method of grading
numerical grade

Duration
1 semester

Module level
undergraduate

Other prerequisites
--

Contents
Issues of “General Geography” in terms of global subspaces. This can be individual states as well as distinctive European subspaces due to their lay (e.g. North America, Alpine countries) or individual continents or distinctive subspaces due to their lay like North America or the Arabian Peninsula.

Intended learning outcomes
Students dispose over the following skills: Students will apply general-geographical skills to regional-related issues, particularly the partial steps: 1. Differentiation and characterisation of a region, 2. Emphasis on specific problems and spatial interactions as well as 3. Synthesis and demonstration of perspectives/problem solutions with thematic emphasis.

Courses
(type, number of weekly contact hours, language — if other than German)
S (2)
Module taught in: German and/or English

Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
presentation (approx. 30 minutes) with related term paper (approx. 20 pages)
Language of assessment: German and/or English

Allocation of places
20 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters with the individual student’s progression through their degree programme being taken into account. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.

Additional information
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<td>Institute of Geography and Geology</td>
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</table>

**Contents**

Issues of "General Geography" in terms of global subspaces. This can be individual states as well as distinctive European subspaces due to their lay (e.g. North America, Alpine countries) or individual continents or distinctive subspaces due to their lay like North America or the Arabian Peninsula.

**Intended learning outcomes**

Students dispose over the following skills: Students will apply general-geographical skills to regional-related issues, particularly the partial steps: 1. Differentiation and characterisation of a region, 2. Emphasis on specific problems and spatial interactions as well as 3. Synthesis and demonstration of perspectives/problem solutions with thematic emphasis.

**Courses**

<table>
<thead>
<tr>
<th>(type, number of weekly contact hours, language — if other than German)</th>
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<tbody>
<tr>
<td>S (2)</td>
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</table>

**Method of assessment**

<table>
<thead>
<tr>
<th>(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)</th>
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</thead>
<tbody>
<tr>
<td>presentation (approx. 30 minutes) with related term paper (approx. 20 pages)</td>
</tr>
<tr>
<td>Assessment offered: Once a year, summer semester</td>
</tr>
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<td>Language of assessment: German and/or English</td>
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</table>

**Allocation of places**

20 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters with the individual student's progression through their degree programme being taken into account. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.

**Additional information**

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**Referred to in LPO I**

(examination regulations for teaching-degree programmes)

§ 66 I Nr. 2
Human Geography

(ECTS credits)
<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>Spatial Planning and Information</td>
<td>04-Geo-RPI-152-m01</td>
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<tbody>
<tr>
<td>holder of the Professorship of Geography and Regional Science</td>
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**Contents**

No information on contents available.

**Intended learning outcomes**

No information on intended learning outcomes available.

**Courses** (type, number of weekly contact hours, language — if other than German)

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**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) portfolio (approx. 20 pages, including 2 maps, 5 logs) or b) written examination (approx. 45 minutes) or c) presentation (approx. 30 minutes) with related term paper (approx. 20 pages)

Language of assessment: German and/or English

**Allocation of places**

--

**Additional information**

--

**Referred to in LPO I** (examination regulations for teaching-degree programmes)

§ 66 I Nr. 2
### Module title

Special Issues of Human Geography 1

| Abbreviation       | 04-Geo-SHG1-152-m01 |

### Module coordinator

holder of the Professorship of Social Geography

### Module offered by

Institute of Geography and Geology

### ECTS

5

### Method of grading

numerical grade

### Only after succ. compl. of module(s)

--

### Duration

1 semester

### Module level

undergraduate

### Other prerequisites

--

### Contents

This module deals with and consolidates chosen issues of "Theoretical and Applied Human Geography" from a sub-area of "Human Geography". Presentation of epistemological concepts, contents and methods as well as their significance for scientific works.

### Intended learning outcomes

Students learn technical theories and achieve solid skills in a sub-area of Human Geography and its applied implementation. They are able to issue a seminar paper on the basis of independent literary work as well as to present the seminar papers in a presentation, which will be held freely.

### Courses

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### Method of assessment

presentation (approx. 30 minutes) with related term paper (approx. 20 pages)

Language of assessment: German and/or English

### Allocation of places

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### Additional information

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### Referred to in LPO I

(examination regulations for teaching-degree programmes)

§ 66 I Nr. 1
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**Contents**

This module deals with chosen issues of "Theoretical and Applied Human Geography" from a sub-area of "Human Geography" (other sub-area as in the module "Special Human Geography 1"). Presentation of epistemological concepts, contents and methods as well as their significance for scientific works.

**Intended learning outcomes**

Students learn technical theories and achieve solid skills in a sub-area of Human Geography and its applied implementation. They are able to issue a seminar paper on the basis of independent literary work as well as to present the seminar papers in a presentation, which will be held freely.

**Courses**

(type, number of weekly contact hours, language — if other than German)

S (2)

Module taught in: German and/or English

**Method of assessment**

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

presentation (approx. 30 minutes) with related term paper (approx. 20 pages)

Language of assessment: German and/or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO I**

(examination regulations for teaching-degree programmes)

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<tr>
<td>Special Issues of Human Geography 3</td>
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**Contents**
Deepening lecture concerning a sub-area of "Human Geography" with presentation of chosen examples of man-geographical research and working practice and consolidation of chosen and research-related topic areas of "Human Geography".

**Intended learning outcomes**
Students learn technical theories and achieve advanced skills in a sub-area of Human Geography and its applied implementation.

**Courses**  
(type, number of weekly contact hours, language — if other than German)

V (2)  
Module taught in: German and/or English

**Method of assessment**  
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 45 minutes)  
Assessment offered: Once a year, summer semester  
Language of assessment: German and/or English

**Allocation of places**
--

**Additional information**
--

**Referred to in LPO I**  
(examination regulations for teaching-degree programmes)
Key Skills Area
(20 ECTS credits)
General Key Skills
(5 ECTS credits)

Students must take modules offered as part of the pool of general transferable skills (ASQ) of JMU.
Subject-specific Key Skills
(15 ECTS credits)
<table>
<thead>
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<tbody>
<tr>
<td>Scientific Writing and Presentation Skills in Earth Sciences</td>
<td>04-Geo-WAG-152-m01</td>
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**Contents**

Students will be provided with basics of scientific work in Geography: This includes dealing with literature, conception and writing of scientific texts as well as being able to present in an university style.

**Intended learning outcomes**

Students achieve basics concerning methods of scientific work. This refers to the fundamental design of scientific texts and oral presentations, application adequate working techniques as well as the necessary information competence.

**Courses**

(type, number of weekly contact hours, language — if other than German)

T (2)

Module taught in: German and/or English

**Method of assessment**

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

presentation with or without slides (approx. 30 minutes)

Language of assessment: German and/or English

creditable for bonus

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

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<table>
<thead>
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<tr>
<td>Job-related Practical Experience 1</td>
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**Module coordinator**  
holder of the Professorship of Social Geography

**Module offered by**  
Institute of Geography and Geology

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**Duration**  
undergraduate

**Contents**
The work placement has to be completed in a module-relevant office or company, which fits the professional career the student is looking for or must be completed by field work for four weeks outside of Europe. The work placement should comprise tasks that provides the intern with a comprehensive and adequate insight into the vocational world.

**Intended learning outcomes**
Students receive first insights into job opportunities of geographers at an employer during a four-week work placement. Thus, students will have the opportunity to establish contacts and to get in touch with different vocational practices.

**Courses** (type, number of weekly contact hours, language — if other than German)
- P (0)
  Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)
Language of assessment: German and/or English

**Allocation of places**  
--

**Additional information**
Students must submit a letter issued by the institution at which they completed their placement. This letter must confirm the start and end dates as well as the contents of the placement.

**Referred to in LPO I** (examination regulations for teaching-degree programmes)
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### Module title

Job-related Practical Experience 2

### Abbreviation

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### Module coordinator

holder of the Professorship of Social Geography

### Module offered by

Institute of Geography and Geology

### Contents

The work placement has to be completed in a module-relevant office or company, which fits the professional career the student is looking for or must be completed by field work for four weeks outside of Europe. The work placement should comprise tasks that provides the intern with a comprehensive and adequate insight into the vocational world.

### Intended learning outcomes

Students receive first insights into job opportunities of geographers at an employer during a four-week work placement. Thus, students will have the opportunity to establish contacts and to get in touch with different vocational practices.

### Courses

- **P (o)**
  - Module taught in: German and/or English

### Method of assessment

- **Language of assessment: German and/or English**
- **Allocation of places**
  - --
  - **Additional information**
  - Students must submit a letter issued by the institution at which they completed their placement. This letter must confirm the start and end dates as well as the contents of the placement.

### Referred to in LPO I

(examination regulations for teaching-degree programmes)

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Thesis

(10 ECTS credits)
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<tbody>
<tr>
<td>Bachelor Thesis Geography</td>
<td>04-Geo-AA-152-m01</td>
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<tbody>
<tr>
<td>chairperson of examination committee Bachelor Geography (Geography)</td>
<td>Institute of Geography and Geology</td>
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**Contents**

Adhering to the principles of good scholarly practice, students will independently process a scientific issue and produce a bachelor's thesis.

**Intended learning outcomes**

Students have the following skills:
- Ability to produce a scientific work (description and analysis of a problem, literature research, theory reference, interpretation of data, logical conclusions and solution approaches of a scientific issue) on their own.
- Linguistic competence.
- Ability to accomplish tasks in a given time period.

**Courses** (type, number of weekly contact hours, language — if other than German)

No courses assigned to module

Module taught in: German and/or English

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

Bachelor's thesis (approx. 40 pages)

Language of assessment: German and/or English

**Allocation of places**

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**Additional information**

--

**Referred to in LPO 1** (examination regulations for teaching-degree programmes)

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