Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

Subdivided 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

Learning Outcomes

German contents and learning outcome available but not translated yet.

Wissenschaftliche Befähigung

- Das Bachelor#Studium der Geographie vermittelt die Grundlagen der Physischen Geographie und sowie die grundlegenden Arbeitsmethoden der Geographie. Der Studiengang ist in einen Pflicht#, Wahl# und Schlüsselqualifikationsbereich untergliedert und bereitet auf eine qualifizierte Erwerbstätigkeit vor. Das Ziel der Ausbildung ist es, den Studierenden grundlegende Kenntnisse auf den wichtigsten Teilgebieten der Geographie zu vermitteln und sie mit Methoden des geographischen Denkens und Arbeitens vertraut zu machen. Deshalb wird auf das Verständnis der fundamentalen geographischen Begriffe und Theorien sowie auf Methodenkenntnisse und die Entwicklung typischer Denkstrukturen besonderer Wert gelegt. Zentrales Lernziel ist somit der Erwerb der Fähigkeit, räumliche Strukturen und Entwicklungsprozesse zielgerichtet zu analysieren, zu dokumentieren und zu bewerten.
- In den ersten drei Semestern der Bachelorstudiengänge wird das Grundlagenwissen vermittelt.
- Im 4. bis 6. Semester der Bachelorstudiengänge wird das Grundlagenwissen vertieft. Es bestehen zunehmend Möglichkeiten der Spezialisierung. Das vorhandene Wissen soll eingeordnet und in größere Zusammenhänge gestellt werden. Der Anwendungsbezug ist in diesem Studienabschnitt weit größer als zu Beginn des Bachelorstudiums, um mit Abschluss des Studiums für eine Erwerbstätigkeit zu qualifizieren.

Befähigung zur Aufnahme einer Erwerbstätigkeit

- Definition, Reflexion und Bewertung von Zielen für Lern# und Arbeitsprozesse sowie eigenständige und nachhaltige Gestaltung von Lern# und Arbeitsprozessen: Praxisbezug: Studierende sind in der Lage, theoretisches Wissen in der Praxis anzuwenden.
- Problemlösungskompetenz: Absolventen/innen können mit wissenschaftlichen Methoden auch unbekannte Herausforderungen zu analysieren und zielgerichtet zu bearbeiten.
- Teamfähigkeit / Konfliktkompetenz: Absolventen /innen sind in der Lage, konstruktiv und zielorientiert in einem heterogenen, teilweise internationalem, Team zusammenzuarbeiten, unterschiedliche Ansichten produktiv zur Zielerreichung zu nutzen und mögliche Konflikte zu bearbeiten.
- Zeitmanagement: Absolventen/innen können unterschiedliche Aufgaben parallel und unter Zeit# und Erfolgsdruck auch bei widrigen Rahmenbedingungen erfolgreich bearbeiten.

Persönlichkeitsentwicklung

- Diskussionskultur und Teamfähigkeit: Entwicklung der Diskussionsbereitschaft und Befähigung zur Teamarbeit.
- Interkulturelle Kompetenz: Die Absolventen /innen können ihre erworbenen Kompetenzen in unterschiedlichen interkulturellen Kontexten anwenden.
- Die Absolventen /innen können sich sicher in einem heterogenen Umfeld bewegen und andere Meinungen konstruktiv auf ein gemeinsames Ziel einbinden. Sie sind kritikfähig.

Befähigung zum gesellschaftlichen Engagement

- Ethisches Handeln: Die Absolventen /innen können gesellschaftliche, naturwissenschaftliche, kulturelle wie auch wirtschaftliche Entwicklungen vergleichen, kritisch reflektieren und begründet eigene Positionen beziehen. Sie haben die Fähigkeit entwickelt, ihre Kompetenzen in partizipative Prozesse einzubringen.

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.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
Compulsory Courses (55 ECTS credits)				
General Physical Geography				
04-Geo-PG1Ex-152-m01	General Physical Geography: Exogenic Dynamics - Geomorphology	5	NUM	19
04-Geo-PG1En-152-m01	General Physical Geography: Endogenic Dynamics - Introduction to Geology	5	NUM	18
04-Geo-PG1Kl-152-m01	General Physical Geography: Climate System	5	NUM	20
Human Geography				
04-Geo-HG1S-152-m01	General Human Geography: Introduction to the Geography of Cities, Towns and Villages	5	NUM	11
04-Geo-HG1W-152-m01	General Human Geography: Introduction to Economic Geography	5	NUM	12
04-Geo-HG1B-152-m01	General Human Geography: Introduction to Social and Population Geography	5	NUM	10
Special Physical Geography				
04-Geo-SPG1-152-m01	Special Problems of Physical Geography 1 (Earth System: Man and Environment)	5	NUM	32
Working methods of Physical Geography				
04-Geo-MPG1-152-m01	Methods of Physical Geography 1	5	NUM	14
04-Geo-NRA-152-m01	Natural landscape analysis	5	NUM	17
Statistics and Cartography 1				
04-Geo-STATU-152-m01	Statistics: Fundamentals of Descriptive and Inferential Statistics	5	NUM	36
04-Geo-KART-152-m01	Cartography and Geoinformation	5	NUM	13
Compulsory Electives (35 ECTS credits) Students may select any of the modules from the module groups below.				
Statistics and Cartography 2				
04-Geo-STATM-152-m01	Statistics: Special and Multivariate Procedures	5	NUM	35
04-Geo-GIS-152-m01	Geographical Information Systems (GIS)	5	NUM	9
Special and Applied Physical Geography				
04-Geo-SPG2-152-m01	Special Problems of Physical Geography 2 (Earth System: Man and Environment)	5	NUM	33
04-Geo-SPG3-152-m01	Special Problems of Physical Geography 3 (Earth System: Man and Environment)	5	NUM	34
04-Geo-PPG-152-m01	Applied physical geography	10	NUM	21
Working methods of Physical Geography				
04-Geo-MPG2-152-m01	Methods of Physical Geography 2	5	NUM	15
04-Geo-MPG3-152-m01	Methods of Physical Geography 3	5	NUM	16
Remote Sensing				
04-Geo-FERNE-152-m01	Introduction to Geographical Remote Sensing	5	NUM	8
04-Geo-FERNA-152-m01	Applications of Remote Sensing in Geography	5	NUM	7
Regional Geography				
04-Geo-RG-V1-152-m01	Regional Geography - Lecture course 1	5	NUM	26

04-Geo-RG-V2-152-m01	Regional Geography - Lecture course 2	5	NUM	27
04-Geo-RG-S1-152-m01	Regional Geography - Seminar 1	5	NUM	24
04-Geo-RG-S2-152-m01	Regional Geography - Seminar 2	5	NUM	25
Human Geography				
04-Geo-RPI-152-m01	Spatial Planning and Information	5	NUM	28
04-Geo-SHG1-152-m01	Special Issues of Human Geography 1	5	NUM	29
04-Geo-SHG2-152-m01	Special Issues of Human Geography 2	5	NUM	30
04-Geo-SHG3-152-m01	Special Issues of Human Geography 3	5	NUM	31
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)				
04-Geo-WAG-152-m01	Scientific Writing and Presentation Skills in Earth Sciences	5	B/NB	37
04-Geo-PRAK1-152-m01	Job-related Practical Experience 1	5	B/NB	22
04-Geo-PRAK2-152-m01	Job-related Practical Experience 2	5	B/NB	23
Thesis (10 ECTS credits)				
04-Geo-AA-152-m01	Bachelor Thesis Geography	10	NUM	6

Module title			Abbreviation
Bachelor Thesis Geography			04-Geo-AA-152-m01
Module coordinator			**Module offered by**
chairperson of examination committee Bachelor Geographie (Geography)			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
10	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a bonus)

Bachelor's thesis (approx. 40 pages)
Language of assessment: German and/or English

Allocation of places

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Additional information

Time to complete: 10 weeks.

Workload

300 h

Teaching cycle

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

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Module title			Abbreviation
Applications of Remote Sensing in Geography			04-Geo-FERNA-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Remote Sensing			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

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Module title			Abbreviation
Introduction to Geographical Remote Sensing			04-Geo-FERNE-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Remote Sensing			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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)

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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Geographical Information Systems (GIS)			04-Geo-GIS-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Physical Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 geodata base); 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 can be chosen to earn a bonus)

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

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

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Module title			Abbreviation
General Human Geography: Introduction to Social and Population Geography			04-Geo-HG1B-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Social Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a bonus)

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

Allocation of places

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Additional information

Qualification goal: scientific competences

Workload

150 h

Teaching cycle

Teaching cycle: every year, winter semester

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

§ 47 I Nr. 1
§ 66 I Nr. 1

Module title			Abbreviation
General Human Geography: Introduction to the Geography of Cities, Towns and Villages			04-Geo-HG1S-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Geography and Regional Science		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a bonus)

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

Allocation of places

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Additional information

Qualification goal: scientific competences

Workload

150 h

Teaching cycle

Teaching cycle: every year, winter semester

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

§ 47 I Nr. 1
§ 66 I Nr. 1

Module title			Abbreviation
General Human Geography: Introduction to Economic Geography			04-Geo-HG1W-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Economic Geography			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 (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 can be chosen to earn a bonus)

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

Allocation of places

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Additional information

Qualification goal: scientific competences

Workload

150 h

Teaching cycle

Teaching cycle: every year, summer semester

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

§ 47 I Nr. 1
§ 66 I Nr. 1

Module title			Abbreviation
Cartography and Geoinformation			04-Geo-KART-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Geography and Regional Science			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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, 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 can be chosen to earn a bonus)

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

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Methods of Physical Geography 1			04-Geo-MPG1-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Climatology			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 (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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Methods of Physical Geography 2			04-Geo-MPG2-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Soil Science			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a 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
Assessment offered: Once a year, summer semester

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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Methods of Physical Geography 3			04-Geo-MPG3-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Geodynamics and Geomaterials Research		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 practised on the basis of their in the handpiece 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 can be chosen to earn a 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
Assessment offered: Once a year, summer semester

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

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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Natural landscape analysis			04-Geo-NRA-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Soil Science			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

The module aims to deepen basic knowledge by means of selected landscapes. Theme category groups related to "Physical Geography" are generated by examplary landscape units. The teaching approach is realised by the application of maps, digital elevation modells, 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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
General Physical Geography: Endogenic Dynamics - Introduction to Geology			04-Geo-PG1En-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Geodynamics and Geomaterials Research		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

Teaching cycle: every year, winter semester

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

§ 47 I Nr. 1
§ 66 I Nr. 1

Module title			Abbreviation
General Physical Geography: Exogenic Dynamics - Geomorphology			04-Geo-PG1Ex-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Physical Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

Teaching cycle: every year, winter semester

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

§ 47 I Nr. 1
§ 66 I Nr. 1

Module title			Abbreviation
General Physical Geography: Climate System			04-Geo-PG1Kl-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Climatology		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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, charateristics 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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

Teaching cycle: every year, summer semester

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

§ 47 I Nr. 1
§ 66 I Nr. 1

Module title			Abbreviation
Applied physical geography			04-Geo-PPG-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Climatology		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
10	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
2 semester	undergraduate	--	

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 studients learn how to practically implement a given objective in Physical Geography. They also gain experience in independent an 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 can be chosen to earn a bonus)

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

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

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Workload

300 h

Teaching cycle

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

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Module title			Abbreviation
Job-related Practical Experience 1			04-Geo-PRAK1-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Social Geography			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	(not) successfully completed	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	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 can be chosen to earn a bonus)

placement report (5 to 10 pages)
Language of assessment: German and/or English

Allocation of places

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Additional information

Additional information on module duration: 4 weeks or 8 weeks if module is to be recognised as 04-Geo-PRAKT2. 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.

Workload

150 h

Teaching cycle

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

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Module title			Abbreviation
Job-related Practical Experience 2			04-Geo-PRAK2-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Social Geography			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	(not) successfully completed	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	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 can be chosen to earn a bonus)

placement report (5 to 10 pages)
Language of assessment: German and/or English

Allocation of places

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Additional information

Additional information on module duration: 4 weeks.
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.

Workload

150 h

Teaching cycle

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

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Module title			Abbreviation
Regional Geography - Seminar 1			04-Geo-RG-S1-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Physical Geography			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 1

Module title			Abbreviation
Regional Geography - Seminar 2			04-Geo-RG-S2-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Physical Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

ssues 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 can be chosen to earn a bonus)

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

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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Regional Geography - Lecture course 1			04-Geo-RG-V1-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Physical Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a 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

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Additional information

Qualification goal: scientific competences

Workload

150 h

Teaching cycle

Teaching cycle: every year, winter semester

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

§ 47 I Nr. 2
§ 66 I Nr. 1

Module title			Abbreviation
Regional Geography - Lecture course 2			04-Geo-RG-V2-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Physical Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 (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 can be chosen to earn a 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

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Additional information

Qualification goal: scientific competences

Workload

150 h

Teaching cycle

Teaching cycle: every year, winter semester

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

§ 47 I Nr. 2
§ 66 I Nr. 1

Module title			Abbreviation
Spatial Planning and Information			04-Geo-RPI-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Geography and Regional Science			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

In spatial planning, maps and plans are used at the various planning levels from regional planning down to municipal and district planning, both for analytical purposes and monitoring with geoinformation systems and for the graphic representation of planning regulations. The seminar teaches methods and techniques for creating thematic maps and plans with planning-relevant topics, from data research to data preparation and data visualization to the final map layout.

Intended learning outcomes

Students have basic knowledge of spatial planning at the various planning levels from spatial planning down to municipal and district planning. They have the methodological and technical skills to create thematic maps and plans independently.

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 can be chosen to earn a 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

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Additional information

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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Special Issues of Human Geography 1			04-Geo-SHG1-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Social Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 (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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 1

Module title			Abbreviation
Special Issues of Human Geography 2			04-Geo-SHG2-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Social Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

This module deals with chosen issues of "Theoretical and Applied Human Geography" from a sub-area of "Human Heography" (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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Special Issues of Human Geography 3			04-Geo-SHG3-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Social Geography			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

Deepening lecture concerning a sub-area of "Human Geography" with presentation of chosen examples of human-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 can be chosen to earn a bonus)

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

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

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Module title			Abbreviation
Special Problems of Physical Geography 1 (Earth System: Man and Environment)			04-Geo-SPG1-152-m01
Module coordinator		**Module offered by**	
holder of the Chair of Soil Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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.) wil 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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Special Problems of Physical Geography 2 (Earth System: Man and Environment)			04-Geo-SPG2-152-m01
Module coordinator		**Module offered by**	
holder of the Chair of Soil Geography		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 (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 can be chosen to earn a 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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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Special Problems of Physical Geography 3 (Earth System: Man and Environment)			04-Geo-SPG3-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Climatology		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	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 (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 can be chosen to earn a bonus)

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

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

§ 66 I Nr. 2

Module title			Abbreviation
Statistics: Special and Multivariate Procedures			04-Geo-STATM-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Climatology			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a bonus)

written examination (approx. 60 minutes)
Language of assessment: German and/or English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

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Module title			**Abbreviation**
Statistics: Fundamentals of Descriptive and Inferential Statistics			04-Geo-STATU-152-m01
Module coordinator			**Module offered by**
holder of the Professorship of Climatology			Institute of Geography and Geology
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a bonus)

written examination (approx. 60 minutes)
Language of assessment: German and/or English

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

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Module title			Abbreviation
Scientific Writing and Presentation Skills in Earth Sciences			04-Geo-WAG-152-m01
Module coordinator		**Module offered by**	
holder of the Professorship of Geography and Regional Science		Institute of Geography and Geology	
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	(not) successfully completed	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

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 can be chosen to earn a bonus)

a) presentation with (approx. 30 minutes)
b) presentation 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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Workload

150 h

Teaching cycle

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

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