

Subdivided Module Catalogue
for the Subject
Geography
as a minor in a Bachelor's degree programme
(60 ECTS credits)

Examination regulations version: 2012
Responsible: Faculty of Arts, Historical, Philological, Cultural and Geographical
Studies
Responsible: Institute of Geography and Geology

Course of Studies - Contents and Objectives

The program of studies is intended to provide a background in the most important subfields of geography and familiarize the student with the techniques of geographical reasoning and working. Their education and training towards analytical and synthetic thinking is to provide the Holder of the qualification with the skills to adapt to new tasks. Therefore, the main focus is on the comprehension of the fundamental geographical terms and theories as well as on a sound knowledge of techniques and the development of typical thought processes. The primary educational objective of the undergraduate studies in "Nebenfach" Geography is thus the acquisition of skills to purposefully analyze, document and assess spatial structures and development processes

Specifically, the following student outcomes (knowledge, skills and competencies) are achieved:

- Expert knowledge about geography, geoscience and spatial science.
- Overview of the relationship of the geographical subdisciplines and neighboring disciplines.
- Capability to discuss geographical contents and problems with peers and colleagues and to explain them to a more diverse audience.

final examination is to determine whether the geographical aspects taught during the program of studies have been understood, and whether the candidate has achieved the skill to apply the scientific methods.

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:

ASPO2009

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

21-Feb-2012 (2012-34)

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 (30 ECTS credits)				
Physical Geography (15 ECTS credits)				
09-PG1ExD-102-m01	General Physical Geography 1 (Earth System: Exogeneous Dynamics - Geomorphology)	5	NUM	20
09-PG1KS-102-m01	General Physical Geography 2 (Earth System: Climate System)	5	NUM	21
09-PG1EnD-102-m01	General Physical Geography 3 (Earth System: Endogenic Dynamics)	5	NUM	19
Human Geography (15 ECTS credits)				
09-HG1SI-102-m01	Introduction to the Geography of Cities, Towns and Villages	5	NUM	7
09-HG1WI-102-m01	Introduction to Economic Geography	5	NUM	9
09-HG1SO-102-m01	Introduction to Social and Population Geography	5	NUM	8
Compulsory Electives (30 ECTS credits)				
Cartography and Statistics				
09-KART1-102-m01	Cartography 1	5	NUM	12
09-STAT1-102-m01	Statistics 1	5	NUM	26
Physical Geography				
09-PG2T1-102-m01	Special Problems of Physical Geography 1	5	NUM	22
09-PG2T2-102-m01	Special Problems of Physical Geography 2	5	NUM	23
09-MT1-102-m01	Data Acquisition and Processing in Physical Geography	5	NUM	13
09-MT3-082-m01	Working Methods: Solid Earth System	10	NUM	15
Human Geography				
09-HG2T1-102-m01	Special Issues of Human Geography 1	5	NUM	10
09-HG2T2-102-m01	Special Issues of Human Geography 2	5	NUM	11
09-MT2-082-m01	Theories and Methodology in Human Geography	5	NUM	14
09-MT4-102-m01	Quantitative and Qualitative Regional Analysis	10	NUM	17
Regional Geography				
09-RG1T1-102-m01	Regional Geography 1 - Part 1	5	NUM	24
09-RG1T2-102-m01	Regional Geography 1 - Part 2	5	NUM	25
Remote Sensing				
09-FERN1-102-m01	Remote Sensing 1	5	NUM	5
09-FERN2-102-m01	Remote Sensing 2	5	NUM	6

Module title		Abbreviation
Remote Sensing 1		09-FERN1-102-m01
Module coordinator		Module offered by
holder of the Chair 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		
Introduction to "Geographical Remote Sensing".		
Intended learning outcomes		
Students possess the following skills: Theoretical basics of the Remote Sensing System, Remote Sensing against the background of different sensor and platform specifications.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 66 (1) 2. Geographie Methoden der Geographie		
Module appears in		
Bachelor' degree (1 major) Computer Science (2014) Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Remote Sensing 2		09-FERN2-102-m01
Module coordinator		Module offered by
holder of the Chair 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		
Application of Remote Sensing to Geography.		
Intended learning outcomes		
Students have skills of current geographical fields of application concerning the cross-sectional methodology, consolidation of application possibilities of different sensor and platform specifications.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Computer Science (2014) Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Introduction to the Geography of Cities, Towns and Villages		09-HG1Sl-102-m01
Module coordinator		Module offered by
holder of the Professorship of Cultural 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 "Settlement Geography".		
Intended learning outcomes		
Students possess knowledge of Urban Geography as well as in Geography of Rural Settlements.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 47 (1) 1. Geographie Humangeographie § 66 (1) 1. Geographie Humangeographie		
Module appears in		
Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor' degree (1 major) Political and Social Studies (2011) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (Minor, 2012) Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2012)		

Module title		Abbreviation
Introduction to Social and Population Geography		09-HG1SO-102-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 "Social and Population Geography".		
Intended learning outcomes		
Students possess knowledge of Social and Population Geography as well as Civilisation Geographical Research.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 47 (1) 1. Geographie Humangeographie § 66 (1) 1. Geographie Humangeographie		
Module appears in		
Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor' degree (1 major) Political and Social Studies (2011) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (Minor, 2012) Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2012)		

Module title		Abbreviation
Introduction to Economic Geography		09-HG1WI-102-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 "Economic Geography".		
Intended learning outcomes		
Students possess knowledge of Economic Geography. They are also acquainted with the geographical economic theory, location theory and development theory.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 47 (1) 1. Geographie Humangeographie		
§ 66 (1) 1. Geographie Humangeographie		
Module appears in		
Bachelor' degree (1 major) Mathematics (2014)		
Bachelor' degree (1 major) Mathematics (2012)		
Bachelor' degree (1 major) Mathematics (2013)		
Bachelor' degree (1 major) Political and Social Studies (2011)		
Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012)		
Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012)		
Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (Minor, 2012)		
Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2012)		

Module title		Abbreviation
Special Issues of Human Geography 1		09-HG2T1-102-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".		
Intended learning outcomes		
Students are familiar with technical theories and have solid knowledge of a sub-area of Human Geography and their application-oriented implementation. They are acquainted with the production of seminar papers on the basis of independent literature work as well as presentation of the seminar papers in a freely hold presentation.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
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 written elaboration (approx. 20 pages), weighted 1:1		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Special Issues of Human Geography 2		09-HG2T2-102-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".		
Intended learning outcomes		
Students are familiar with technical theories and have solid knowledge of a sub-area of Human Geography and their application-oriented implementation. They are acquainted with the production of seminar papers on the basis of independent literature work as well as presentation of the seminar papers in a freely hold presentation.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
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 written elaboration (approx. 20 pages), weighted 1:1		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Cartography 1		09-KART1-102-m01
Module coordinator		Module offered by
holder of the Professorship of Cultural 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 "Cartography" and to the "Collection and Processing of Geodata".		
Intended learning outcomes		
Students possess the following skills: Basics of cartography and use of geodata.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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) and practice work (approx. 30 hours for creating approx. 3 maps or diagrams); weighted 1:1		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 66 (1) 2. Geographie Methoden der Geographie		
Module appears in		
Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Master's degree (1 major) General and Applied Linguistics (2012) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012) Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2012) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Data Acquisition and Processing in Physical Geography		09-MT1-102-m01
Module coordinator		Module offered by
holder of the Chair 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		
Consolidation of methodical knowledge concerning the collection and processing of data sets, which will be ad- duced in "Physical Geography" as a typical example in order to understand the natural environment; Advanced students can attend alternative seminars, in which applications from the areas ground climatology, climate mo- delling, geophysical methods, soil science of fields, remote sensing and GIS (geographic information system) will be offered optionally.		
Intended learning outcomes		
Students have advanced knowledge of the area basic principles, methodology, cartography and EDP (if necessa- ry statistics, too), which are gained by means of a precise task. Thus, each form of data collection in the field or the modelling at the computer with different stages of data processing in the lab or at the computer will be lin- ked together in order to teach the practical dealing with geophysical measurement methods as well as the dea- ling with different software applications.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)		
presentation (approx. 15 minutes) with written elaboration (15 pages), weighted 1:1		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Geography (2010) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Theories and Methodology in Human Geography		09-MT2-082-m01
Module coordinator		Module offered by
holder of the Professorship of Cultural 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 course will introduce students to general theory of science and geographical specific theory, discussion of different perspectives of research and methodologies, basics of empirical study in analytical and prescriptive sciences.		
Intended learning outcomes		
Students possess knowledge of theoretical and methodological basics. Students are acquainted with empirical research methods as well as models and modelling to Human Geography.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
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 (45 minutes) and presentation (approx. 20 minutes), weighted 1:1		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 66 (1) 2. Geographie Methoden der Geographie		
Module appears in		
Bachelor' degree (1 major) Geography (2008) Bachelor' degree (1 major) Geography (2010) Bachelor' degree (1 major) Mathematics (2008) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title			Abbreviation
Working Methods: Solid Earth System			09-MT3-082-m01
Module coordinator		Module offered by	
holder of the Chair of Geodynamics and Geomaterials Research		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			
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 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)			
This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none">09-MT3-1-082: S (no information on SWS (weekly contact hours) and course language available)09-MT3-2-082: Ü (no information on SWS (weekly contact hours) and course language available)			
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)			
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.			
Assessment in module component 09-MT3-1-082: Mineral and Rock Identification <ul style="list-style-type: none">5 ECTS, Method of grading: numerical gradewritten or oral examination of one candidate each (30 minutes each)			
Assessment in module component 09-MT3-2-082: Geological Maps and Structures <ul style="list-style-type: none">5 ECTS, Method of grading: numerical gradewritten or oral examination of one candidate each (approx. 30 minutes each) or term paper (approx. 20 pages)			
Allocation of places			
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Additional information			
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Workload			
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Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 66 (1) 2. Geographie Methoden der Geographie

Module appears in

Bachelor' degree (1 major) Geography (2008)
 Bachelor' degree (1 major) Geography (2010)
 Bachelor' degree (1 major) Mathematics (2008)
 Bachelor' degree (1 major) Mathematics (2012)
 Bachelor' degree (1 major) Mathematics (2013)
 Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012)
 Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010)
 Bachelor's degree (2 majors) Geography (2010)

Module title		Abbreviation
Quantitative and Qualitative Regional Analysis		09-MT4-102-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)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
This module includes processes of quantitative regional research, multivariate statistical processes, processes of geographical modelling and simulation. Processes of qualitative social and regional research. Presentation and discussion of methods, criticism of methods. Application of methods based on typical examples.		
Intended learning outcomes		
Students possess the following skills: The students' process-related skills will be applied to regional and analytical methods as well as the skills concerning the assessment and evaluation of the processes application and efficiency.		
Courses (type, number of weekly contact hours, language — if other than German)		
This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> • 09-MT4-1-102: S (no information on SWS (weekly contact hours) and course language available) • 09-MT4-2-102: S (no information on SWS (weekly contact hours) and course language available) 		
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)		
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.		
Assessment in module component 09-MT4-1-102: Quantitative Regional Analysis <ul style="list-style-type: none"> • 5 ECTS, Method of grading: numerical grade • presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 Assessment in module component 09-MT4-2-102: Qualitative Regional Analysis <ul style="list-style-type: none"> • 5 ECTS, Method of grading: numerical grade • a) presentation (approx. 30 minutes) with written elaboration (approx. 20 pages), weighted 1:1 or b) 2 short presentations (10 minutes each) and one portfolio (including approx. 5 logs of practical exercises as well as approx. 3 exercises), weighted 1:1:2 		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 66 (1) 2. Geographie Methoden der Geographie		
Module appears in		
Bachelor' degree (1 major) Geography (2010) Bachelor' degree (1 major) Mathematics (2012)		
minor in a Bachelor's degree programme Geography (2012)	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record Bachelor (60 ECTS) Geographie - 2012	page 17 / 26

Bachelor' degree (1 major) Mathematics (2013)
 Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012)
 Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010)
 Bachelor's degree (2 majors) Geography (2010)

Module title		Abbreviation
General Physical Geography 3 (Earth System: Endogenic Dynamics)		09-PG1EnD-102-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		
Students dispose over basic knowledge of endogenous dynamics		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 47 (1) 1. Geographie Physiogeographie § 66 (1) 1. Geographie Physiogeographie		
Module appears in		
Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012)		

Module title			Abbreviation
General Physical Geography 1 (Earth System: Exogeneous Dynamics - Geomorphology)			09-PG1ExD-102-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 "Physical Geography": basics of exogenous dynamics and geomorphology. 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 basic knowledge of exogenous dynamics and geomorphology.			
Courses (type, number of weekly contact hours, language — if other than German)			
V + T (no information on SWS (weekly contact hours) and course language available)			
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)			
Allocation of places			
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Additional information			
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Workload			
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Teaching cycle			
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Referred to in LPO I (examination regulations for teaching-degree programmes)			
§ 47 (1) 1. Geographie Physiogeographie § 66 (1) 1. Geographie Physiogeographie			
Module appears in			
Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012) Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2012)			

Module title		Abbreviation
General Physical Geography 2 (Earth System: Climate System)		09-PG1KS-102-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		
Introduction to "Physical Geography": basics of the climate system: Earth and celestial mechanical basics; radiation and energy; vertical and horizontal movement processes; data sources and appearance of the terrestrial climate system		
Intended learning outcomes		
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 + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 47 (1) 1. Geographie Physiogeographie § 66 (1) 1. Geographie Physiogeographie		
Module appears in		
Bachelor' degree (1 major) Mathematics (2014) Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012)		

Module title		Abbreviation
Special Problems of Physical Geography 1		09-PG2T1-102-m01
Module coordinator		Module offered by
holder of the Chair 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		
This module covers synthesis and networking of physical-geographical factors in the light of different methodical approaches and particularly on the basis of the human impact: geomorphology, climate, soil, hydro geography, global change and past global change incl. geo and ecosystem research and ecosystem prediction as well as the cycle of materials on Earth's surface.		
Intended learning outcomes		
Students are acquainted with the synthesis and interconnectedness of skills that have already been acquired concerning the processes on Earth's surface, which are dominating the landscape on Earth's surface and are driven by the geological factors rock, relief, climate, soil, water, flora and fauna. These processes determine 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.). Through the quantitative acquisition of current process structures, Physical Geography is not only able to derive predications for the capability and capacity of geological systems, but also to predict changes in future by analysing the development and change of geographical territories in the past. These important planning decision-making bases concerning the management as well as the sustainable use and development, are given weight to the task of Physical Geography in the practical area.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Special Problems of Physical Geography 2		09-PG2T2-102-m01
Module coordinator		Module offered by
holder of the Chair 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		
This module covers synthesis and networking of physical-geographical factors in the light of different methodical approaches and particularly on the basis of the human impact: geomorphology, climate, soil, hydro geography, global change and past global change incl. geo and ecosystem research and ecosystem prediction as well as the cycle of materials on Earth's surface.		
Intended learning outcomes		
Students are acquainted with the synthesis and interconnectedness of skills that have already been acquired concerning the processes on Earth's surface, which are dominating the landscape on Earth's surface and are driven by the geological factors rock, relief, climate, soil, water, flora and fauna. These processes determine 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.). Through the quantitative acquisition of current process structures, Physical Geography is not only able to derive predications for the capability and capacity of geological systems, but also to predict changes in future by analysing the development and change of geographical territories in the past. These important planning decision-making bases concerning the management as well as the sustainable use and development, are given weight to the task of Physical Geography in the practical area.		
Courses (type, number of weekly contact hours, language — if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
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 written elaboration (approx. 20 pages), weighted 1:1		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Mathematics (2012) Bachelor' degree (1 major) Mathematics (2013) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Regional Geography 1 - Part 1		09-RG1T1-102-m01
Module coordinator		Module offered by
holder of the Chair 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		
The module covers issues of "General Geography" in terms of European subspaces or subspaces outside of Europe. This can be individual states as well as distinctive subspaces to Europe or European subspaces due to their lay (e.g. Northern Europe, Alpine countries or North America) or due to common features of distinctive states/regions (e.g. European Union or Arabian Peninsula).		
Intended learning outcomes		
Students possess the following skills: Students will apply general-geographical skills to regional-related issues, particularly partial steps: 1. Differentiation and characterisation of a region, 2. Working out of specific issues 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 (no information on SWS (weekly contact hours) and course language available)		
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 (groups of 3, 45 minutes)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Regional Geography 1 - Part 2		09-RG1T2-102-m01
Module coordinator		Module offered by
holder of the Chair 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		
The module covers issues of "General Geography" in terms of European subspaces or subspaces outside of Europe. This can be individual states as well as distinctive subspaces to Europe or European subspaces due to their lay (e.g. Northern Europe, Alpine countries or North America) or due to common features of distinctive states/regions (e.g. European Union or Arabian Peninsula).		
Intended learning outcomes		
Students possess the following skills: tudents will apply general-geographical skills to regional-related issues, particularly partial steps: 1.Differentiation and characterisation of a region, 2.Working out of specific issues 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 (no information on SWS (weekly contact hours) and course language available)		
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 written elaboration (approx. 20 pages), weighted 1:1		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010) Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2010) Bachelor's degree (2 majors) Geography (2010)		

Module title		Abbreviation
Statistics 1		09-STAT1-102-m01
Module coordinator		Module offered by
holder of the Chair 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 "Statistical Working Methods to Geography": basics of univariate statistics.		
Intended learning outcomes		
Students achieve methodical and practical skills in terms of statistical methods and data analysis.		
Courses (type, number of weekly contact hours, language — if other than German)		
V + T (no information on SWS (weekly contact hours) and course language available)		
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)		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor' degree (1 major) Political and Social Studies (2011) Bachelor's degree (1 major, 1 minor) Geography (Minor, 2012) Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013) Bachelor's degree (2 majors) Political and Social Studies (2011) Bachelor's degree (2 majors) Geography (2010)		