

Subdivided Module Catalogue for the Subject

Applied Physical Geography

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Examination regulations version: 2013

Responsible: Faculty of Arts, Historical, Philological, Cultural and Geographical

Studies

Responsible: Institute of Geography and Geology



Course of Studies - Contents and Objectives

The major objective of geographic-geoscientific research and teaching is to gain a better understanding of the Earth System. Therefore, it is based on the analysis of the processes on and near the surface of the earth which characterize the landscape and are controlled by the geofactors substratum, relief, climate, soil, water, flora, and fauna. These factors determine the structure, function and dynamics of the physical region (the natural environment) and its anthropogenic reshaping (of the environment transformed by human land use, settlements, roads, etc.). The quantitative assessment of the current process structures not only provides the source for conclusions regarding the potential and resilience of geoecosystems, but the analysis of the development and modification of geographic spaces in the past also allow a prediction for future changes. These key criteria to decision making in planning and management as well as the utilization and development are particularly significant in the applied field. Closely linked to the orientation of research activities, the general objective of the "Applied Physical Geography" study program - in addition to providing deeper interdisciplinary comprehension of the Earth system, the structure, function and dynamics of the natural environment and its utilization by the humans - is the promotion of skills for the management of sustainable utilization and development of the habitat Earth.

The students are thereby enabled to understand complex system relationships and to assess them related to their spatiality, to comprehend interdisciplinary connections and to apply scientific topic-based methods and knowledge to solve spatial and geoscientific problems. The study program is particularly designed to enable the students to assess aspects of social acceptance, economic adequacy, administrative feasibility, and legal admissibility. Through the dual focus of application-oriented study and the introduction of autonomous scientific analysis, the Master's study program qualifies the student for professional activities in addition to extended doctoral studies. It prepares the students for the theoretically and methodologically evolving professional requirements thereby allowing them not only to master the methodology and understand the scientific findings of their field of study and to apply them in practice, but also to comprehend and moderate ways of thinking and working that go beyond their own subject area. Furthermore, learning objectives reach beyond the acquisition of subject expertise by developing the ability for interdisciplinary cooperation, the acquirement of communicative and social competency and the capability to apply the knowledge gained, or, in short, to use the theoretical knowhow for the solution of concrete problems.



Abbreviations used

Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\ddot{\mathbf{U}} = \text{exercise}$, $\mathbf{V} = \text{lecture}$

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:

ASP02009

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

27-Feb-2013 (2013-29)

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 (35 EC	TS credits)			
09-MSTAT3-102-m01	Statistics 3	5	NUM	32
09-MMT7-102-m01	Geoinformatics / GIS / Data bank management	5	NUM	28
09-MPP1-102-m01	Applied Project: Change and protection of geosystems	15	NUM	31
09 Mil 1 1 102 mo1	Work placement / Professional practical training for Students	-)	TVOINI),
09-MBPR-102-m01	of Applied Physical Geography	10	B/NB	23
Compulsory Electives (55 EC	TS credits)			,
Core Courses Specialisation	on in the Scientific Discipline (40 ECTS credits)			
09-MPG4-102-m01	Special Issues of Advanced Physical Geography I	5	NUM	29
09-MPG5-102-m01	Special Issues of Advanced Physical Geography II	5	NUM	30
09-MAT1-102-m01	Climatology: climate change, implications and protection	5	NUM	19
09-MAT2-102-m01	Meteorology: synoptic meteorology and weather forecasting	5	NUM	20
09-MBG1-102-m01	Soil and Landscape change	5	NUM	21
	Soil geography: Lab-analytical and microscopical training cour-		-	
09-MBG2-131-m01	se	5	NUM	22
09-RELA1-102-m01	Remote Sensing of land surface parameters	5	NUM	33
09-RELA2-102-m01	Dynamics of the land surfaces	5	NUM	34
09-MLG1-102-m01	Geology of mineral deposits	5	NUM	26
09-MLG2-131-m01	Mineral exploration methods	5	NUM	27
Minor-specific Specialisat	ion (15 ECTS credits)			
09-HGExp-MSc-PIR1-102-	Diameter Lea		NILINA	
mo1	Planning Law	5	NUM	12
og-HGExp-MSc-RU-				
Pl1-102-m01	Regional and Enviromental Planning	5	NUM	13
09-HG-MSc-ThemK1-102-	Visualization, monitoring and communication (Thematic Map-			
mo1	ping)	5	NUM	16
og-HGExp-Spez-	Constitution of the consti		N11.18.4	
HG1-102-m01	Special Issues of Human Geography 1	5	NUM	14
og-HGExp-Spez-	Constitution of the consti			
HG2-102-m01	Special Issues of Human Geography 2	5	NUM	15
F VDC M	Subject disciplinary development for Students of Applied Phy-		NII INA	
09-FwVPG-M1-131-m01	sical Geography 1	5	NUM	9
F::\/DC M- : :	Subject disciplinary development for Students of Applied Phy-	_	NILIAA	
09-FwVPG-M2-131-m01	sical Geography 2	5	NUM	10
09-MethV-M1-131-m01	Methods in Physical Geography - Practice- and consolidating 1	5	NUM	24
09-MethV-M2-131-m01	Methods in Physical Geography: Practice- and consolidating 2	5	NUM	25
09-GP-M-131-m01	Field Course for Students of Applied Physical Geography	5	NUM	11
	Subsidiary subject-specific development for Students of App-		,	<u> </u>
09-BGV-M1-131-m01	lied Physical Geography 1	5	NUM	6
DCVM	Subsidiary subject-specific development for Students of App-			
09-BGV-M2-131-m01	lied Physical Geography 2	5	NUM	7
a - DCV Ma · · · · · · ·	Subsidiary subject-specific development for Students of App-	_	N11 18 4	_
09-BGV-M3-131-m01	lied Physical Geography 3	5	NUM	8



Thesis (30 ECTS credits)

09-MAAK-131-m01 Master Thesis and Final Colloquium by Students of Geography 30 NUM 17



Modul	le title				Abbreviation	
Subsi	Subsidiary subject-specific development for Students of Applied Physical Geo-					
	graphy 1					
Modul	<u>le coord</u>	inator		Module offered by		
holder	r of the (Chair of Physical Geograp	hy	Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Durati		Module level	Other prerequisites			
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	_		examination commi	tee.		
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Intend	led lear	ning outcomes				
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Module coordinator Incider of the Chair of Physical Geography Institute of Geography and Geology CCTS Method of grading Only after succ. compl. of module(s) Institute of Geography and Geology Courses In semester In additional ship and the provide an additional profiling for the subject "Applied Physical Geography", e.g. courses from Biology (especially concerning ecology, geobotany, biodiversity research), from Chemistry (especially inorganic Chemistry), from Physics (especially solid-state physics). Intended learning outcomes Students acquire additional skills from the related sciences of Physical Geography. They acquire knowledge of contents and problem areas, which are necessary for interdisciplinary work. They are also able to communicate within the related sciences technically. Courses (type, number of weekly contact hours, language — if other than German) We (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) Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (approx. 30 to 60 minutes) or d) oral examination in groups of top to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) and/or written elaboration (approx. 10 to 30 pages) Additional information Workload Referred to in LPO1 (examination regulations for teaching-degree programmes) Module appears in	Modul	e title				Abbreviation		
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Master's degree (1 major) Applied Physical Geography (2013)								



Modul	e title				Abbreviation	
Subsidiary subject-specific development for Students of App				plied Physical Geo-	09-BGV-M3-131-m01	
graph						
Modul	e coord	inator		Module offered by		
holder	of the (Chair of Physical Geograp	hy	Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Durati		Module level	Other prerequisites			
1 seme	ester	graduate		•	vice in advance. Recognition by	
			examination commit	tee.		
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course	es from l		rning ecology, geobo	any, biodiversity re	lied Physical Geography", e.g. search), from Chemistry (especi-	
Intend	led lear	ning outcomes				
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Teaching cycle						
	reaching cycle					
Peferred to in IPO L (examination regulations for teaching degree programmes)						
Kelell	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modul	0 2000	arc in				
Modul	Module appears in					



Module	e title				Abbreviation	
Subjec	t discip	plinary development f	or Students of Applied P	hysical Geography	09-FwVPG-M1-131-m01	
1						
Modul	e coord	linator		Module offered by		
holder	of the	Chair of Physical Geoរ្	graphy	Institute of Geograp	phy and Geology	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ester	graduate		•	vice in advance. Recognition by	
			examination commit	tee.		
Conten	ıts					
Course	s that	consolidate technical	skills, e.g. seminars like	"Special or Applied	Physical Geography".	
Intend	ed lear	ning outcomes				
enviror utilisat Physica but als past.Th use an Course S (no in Methor ster, in	nment a cion, se al Geographic to proper implement a deve es (type enformat d of asset format exami	and its anthropogenic attlements, transport regraphy is not only able edict changes in futur apportant planning declopment, are given we are number of weekly contion on SWS (weekly contion on whether modulation (approx. 45 mi	transformation (the envioutes etc.). Through the cet to derive predications for e by analysing the development of the task of Physic entact hours, language—contact hours) and course e, language—if other that e can be chosen to earn nutes) or presentation (a	ronment that has be quantitative acquisi- or the capability and opment and change erning the managen al Geography in the if other than Germa e language available in German, examina a bonus)	an)	
Allocat	tion of	places				
Additio	onal inf	formation				
Worklo	ad					
Teachi	ng cvcl	le				
Referre	ed to in	IPOI (examination r	egulations for teaching-d	egree programmes)		
	Ja to III	CAUTITION I	cacining-u	regree programmes)		
	·-					



•	e title			Abbreviation	
	t discip	linary development for S	Students of Applied Physical Geography	09-FwVPG-M2-131-m01	
2					
Modul	e coord	inator	Module offered by		
holder	of the (Chair of Physical Geograp	phy Institute of Geogra	phy and Geology	
ECTS	Metho	od of grading	Only after succ. compl. of module(s)		
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	graduate	Please consult with course advisory ser	vice in advance. Recognition by	
			examination committee.		
Conter	nts				
Course	es that o	consolidate technical ski	lls, e.g. seminars like "Special or Applied	Physical Geography".	
		ning outcomes			
phytogeography, landscape ecology) in order to understand 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.). 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)					
		, number of weekly conta	t to the task of Physical Geography in the act hours, language — if other than Germa	ment as well as the sustainable practical area.	
S (no i	nforma	, number of weekly contains on SWS (weekly contains sessment (type, scope, la	nt to the task of Physical Geography in the act hours, language — if other than Germa tact hours) and course language availabl anguage — if other than German, examina	ment as well as the sustainable practical area. an)	
S (no in Methorster, in written	nformation examinges), we	, number of weekly contains on SWS (weekly consessment (type, scope, later module contains)	nt to the task of Physical Geography in the act hours, language — if other than Germa tact hours) and course language availabl	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
Methoster, in written 20 pag ted 1:1	nformation examinges), we	number of weekly contained on SWS (weekly contained on SWS (weekly contained on SWS), weekly contained on whether module contained on approx. 45 minuting ighted 1:1 or project reposits	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
Methoster, in written 20 pag ted 1:1	nformat of of ass nformat n exami ges), we	number of weekly contained on SWS (weekly contained on SWS (weekly contained on SWS), weekly contained on whether module contained on approx. 45 minuting ighted 1:1 or project reposits	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
S (no in Method ster, in written 20 pag ted 1:1 Allocat	nformation of partial of the second of partial of parti	number of weekly contained on SWS (weekly cont	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
S (no in Method ster, in written 20 pag ted 1:1 Allocat	nformation of partial of the second of partial of parti	number of weekly contained on SWS (weekly contained on SWS (weekly contained on SWS), weekly contained on whether module contained on approx. 45 minuting ighted 1:1 or project reposits	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
Methoster, in written 20 pag ted 1:1 Allocat Additio	nformat d of ass nformat n exami ges), we tion of p	number of weekly contained on SWS (weekly cont	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
S (no in Method ster, in written 20 pag ted 1:1 Allocat	nformat d of ass nformat n exami ges), we tion of p	number of weekly contained on SWS (weekly cont	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
Methorster, in written 20 pag ted 1:1 Allocated Addition Worklo	nformation examinges), we tion of ponal info	number of weekly contaction on SWS (weekly contaction on SWS (weekly contaction on whether module contaction (approx. 45 minutified 1:1 or project reportant	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
Methorster, in written 20 pag ted 1:1 Allocated Addition	nformat d of ass nformat n exami ges), we tion of p	number of weekly contaction on SWS (weekly contaction on SWS (weekly contaction on whether module contaction (approx. 45 minutified 1:1 or project reportant	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx.	
Methorster, in written 20 pag ted 1:1 Allocat Addition Worklo	nformation examinges), we tion of ponal info	number of weekly contaction on SWS (weekly contaction on SWS (weekly contaction on whether module contaction (approx. 45 minutification) are project reportant.	at to the task of Physical Geography in the act hours, language — if other than Germatact hours) and course language available anguage — if other than German, examination be chosen to earn a bonus) es) or presentation (approx. 30 minutes)	ment as well as the sustainable practical area. an) e) ation offered — if not every semewith written elaboration (approx. ation (approx. 15 minutes), weigh-	



Module title Abbreviation						
Field Cours	e for Students of Applie	d Physical Geography		09-GP-M-131-m01		
Module co	ordinator		Module offered by			
holder of th	ne Chair of Physical Geog	graphy	Institute of Geogra	phy and Geology		
ECTS Me	thod of grading	Only after succ. cor	npl. of module(s)			
5 nu	merical grade					
Duration	Module level	Other prerequisites	3			
1 semester	graduate					
Contents						
		f geographical methods be applied with the hel		ted with project works, in which		
Intended le	earning outcomes					
conception		ation. They are able to wo		ods and the related preparation, ods in a problem-solving and re-		
Courses (ty	pe, number of weekly co	ontact hours, language –	– if other than Germa	an)		
P (no infor	nation on SWS (weekly o	contact hours) and cours	se language available	e)		
		e, language — if other th le can be chosen to earn		ation offered — if not every seme-		
project rep	ort (approx. 15 pages) ar	nd poster presentation (a	approx. 15 minutes),	weighted 1:1		
Allocation	of places					
Additional	information					
Workload						
Teaching c	ycle					
Referred to	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in						
Master's d	Master's degree (1 major) Applied Physical Geography (2013)					



Module title					Abbreviation	
Plannii	ng Law				09-HGExp-MSc-PIR1-102-m01	
Module	e coord	inator		Module offered by		
holder Science		Professorship of Geograp	hy and Regional	Institute of Geograp	phy and Geology	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
bases	and fiel cal and	ds of application; Discus methodological foundati	sion of regional plan	ning and urban land	ruction Law"; Overview of legal -use plans. Theoretical, termi- s legal basis and most common	
Intend	ed learı	ning outcomes				
		ning regulations; Compe g the schedule and inter			sed nomenklatura and their hand- le levels	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
V (no i	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	e)	
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-	
written	exami	nation (approx. 45 minut	es)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Teachi	ng cvcl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
		,				
Module	Module appears in					
	Master's degree (1 major) Applied Physical Geography (2013)					
	Master's degree (1 major) Applied Physical Geography (2010)					



Module title					Abbreviation	
Regional and Environmental Planning o9-HGExp-MSc-RUPI ₁₋₁₀₂ -					09-HGExp-MSc-RUPI1-102-m01	
Module coordinator Module offered by						
holder Scienc		Professorship of Geograp	hy and Regional	Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ıts					
mode of assess many.	uous re of actio ment);	gional observation in Ba n of official and unofficia Notes to the role of regio	varia, Germany and th Il tools (including regi	ne EU; Planning task ional planning proce	, methods and contents of the s, concepts as well as use and edure and environmental impact ental specialist planning in Ger-	
		ning outcomes				
as forn	nal and		al development plann	ing and regional dev	categories, conceptions as well velopment; Skills of qualified ap-	
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
V (no i	nforma	tion on SWS (weekly con	tact hours) and cours	e language available	e)	
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
written	exami	nation (approx. 45 minut	es)			
Allocat	tion of	places				
Additio	onal inf	ormation				
Worklo	ad					
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regu	ulations for teaching-c	degree programmes)		
Module	Module appears in					
		ee (1 major) Applied Phys	sical Geography (2013	3)		
	Master's degree (1 major) Applied Physical Geography (2010)					



Module	Module title Abbreviation				
Specia	Special Issues of Human Geography 1 o9-HGExp-SpezHG1-102-mo				
Module coordinator Module offered by					<u> </u>
holder	of the	Professorship of Social G	eography	Institute of Geograp	ohy and Geology
ECTS		od of grading	Only after succ. con		,
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ıts				
		leals with and consolidat Iuman Geography".	es chosen issues of '	Theoretical and App	olied Human Geography" from a
Intend	ed lear	ning outcomes			
on-orie rature	ented in researc	nplementation. They pos h as well as the presenta	sess the ability to pro tion of seminar pape	duce seminar paper rs in a freely-held pr	
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	ın)
S (no i	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	2)
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-
presen	tation	(approx. 30 minutes) with	written elaboration	(approx. 20 pages),	weighted 1:1
Allocat	tion of	places			
	_				
Additio	onal inf	ormation			
	_				
Worklo	oad				
	_				
Teachi	ng cycl	e			
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)				
Module appears in					
	Master's degree (1 major) Applied Physical Geography (2013) Master's degree (1 major) Applied Physical Geography (2010)				



Modul	Module title Abbreviation					
Specia	Special Issues of Human Geography 2 o9-HGExp-SpezHG2-102-mo					
Module coordinator Module offered by						
holder	of the I	Professorship of Social G	eography	Institute of Geograp	ohy and Geology	
ECTS	_	od of grading	Only after succ. con			
5		rical grade		•		
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
		leals with and consolidat Iuman Geography".	es chosen issues of '	Theoretical and App	olied Human Geography" from a	
Intend	ed lear	ning outcomes				
on-orie	entated		ssess the ability to p	roduce seminar pap	nan Geography" and its applicati- ers on the basis of individual li- presentation.	
Course	s (type	, number of weekly conta	ict hours, language –	if other than Germa	ın)	
S (no i	nformat	tion on SWS (weekly cont	act hours) and cours	e language available	e)	
		sessment (type, scope, la ion on whether module c			tion offered — if not every seme-	
presen	tation ((approx. 30 minutes) with	written elaboration	(approx. 20 pages),	weighted 1:1	
Allocat	ion of p	olaces				
 Additio	onal inf	ormation				
Worklo	ad					
 Teachi	ng cvcl	e				
	J : , : :					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	Master's degree (1 major) Applied Physical Geography (2013)					
Master	's degr	ee (1 major) Applied Phys	sical Geography (2010	o)		



Module	title				Abbreviation	
Visualization, monitoring and communication (Thematic M				apping)	09-HG-MSc-ThemK1-102-m01	
Module coordinator				Module offered by		
holder	of the I	Professorship of Geograp	hy and Regional	Institute of Geogra	phy and Geology	
Science						
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites	1		
1 seme	ster	graduate				
Conten	ts					
Applica	ation of				n the area "Applied Geography". naps or maps-related presentati-	
Intende	ed lear	ning outcomes				
		uire consolidated contentographic presentation of		al skills in the area o	of data organisation and analysis	
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
S (no ir	nforma	tion on SWS (weekly con	tact hours) and cours	e language availabl	e)	
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
5 exerc	ises (a	pprox. 20 pages)				
Allocat	ion of	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Teachi	ng cycl	e	•			
Referre	d to in	LPO I (examination regu	lations for teaching-	degree programmes)		
Module	appea	ars in				
	_	ee (1 major) Applied Phys	- , ,			
Master	Naster's degree (1 major) Applied Physical Geography (2010)					



Module	e title		Abbreviation			
Master Thesis and Final Colloquium by Students of Geograph				phy	09-MAAK-131-m01	
Module	e coord	inator		Module offered by		
	chairperson of examination committee Angewandte Physische Geographie (Applied Physical Geography)			Institute of Geography and Geology		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
30	nume	rical grade				
Duratio	Duration Module level		Other prerequisites			
1 semester graduate						
Conten	Contents					

Applying adequate techniques and adhering to the principles of good scientific practice, students address a current scientific question. The dissertation is documented in a master's thesis and defended in a colloquium.

Intended learning outcomes

Students are qualified to scientifically work on a topic on their own. They are competent to discuss the current research in the field. They are competent to work according to good practice and to document, interpret and to discuss their results. They are competent to discuss and to defend their data in the scientific community. Students are able to defend and discuss their work in front of an specialist audience and thus, possess the respective competence to use their technical knowledge in a topic-related and relevant area.

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

This module has 2 components; information on courses listed separately for each component.

- og-MAAK-2-131: K (no information on language and number of weekly contact hours available)
- 09-MAAK-1-131: A (no information on language and number of weekly contact hours 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)

This module has the following 2 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole..

Assessment component to module component 09-MAAK-2-131: Abschlusskolloquium für Studierende der Geographie

- 2 ECTS credits, method of grading: numerical grade
- talk (approx. 30 minutes) with subsequent discussion (approx. 15 minutes)
- Language of assessment: German, English

Assessment component to module component 09-MAAK-1-131: Masterarbeit für Studierende der Geographie

- 28 ECTS credits, method of grading: numerical grade
- Master thesis (approx. 100 pages)
- Language of assessment: German, English

Allocation of places

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Additional information

Additional information listed separately for each module component.

- 09-MAAK-1-131: Additional information on module duration: 6 months.
- 09-MAAK-2-131: --

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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M	laster's with 1 major Applied Physical Geography	J
(2	2012)	F(



Module appears in



				Abbreviation	
limatology:	climate change, implicat	ions and protection		09-MAT1-102-m01	
Module coor	dinator		Module offered by		
older of the	Professorship of Climatol	ogy	Institute of Geograp	ohy and Geology	
CTS Meth	od of grading	Only after succ. con	npl. of module(s)		
num	erical grade				
Ouration	Module level	Other prerequisites	tes		
semester	graduate				
Contents					
The module "Climatology" provides students with the resource "climate" that is an important constraint concerning structures and processes on the Earth's surface. Particularly the variability of the atmospheric conditions on the atmospheric time-scale makes up the main focus of the module. The module component pursues the problem complex "climate change", whereas the anthropogenic influencing on the terrestrial climate system will be assessed in the light of natural climate factors and fluctuations. Observed climate signs and climate model findings will be presented and the ecological as well as socio-economic consequences of the climate change will be evaluated. Further, requirements, possibilities and problems of the climate policy will be highlighted					

Students get profound insights into mechanisms of climate variability on the basis of physical and mathematical explicit descriptions of atmospheric processes. Especially, the causal relations of natural and anthropogenic climate factors will be discussed. Hence, students get a profound understanding of the problems of anthropogenic climate change and learn to evaluate other issues to "earth sciences" against the background of the changeable geo resource

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. 60 minutes) Language of assessment: German, English

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

Master's degree (1 major) Applied Human Geography (2010)

Master's degree (1 major) Applied Physical Geography (2013)



Module	Module title Abbreviation					
Meteo	rology:	synoptic meteorology ar	nd weather forecastii	ng	09-MAT2-102-m01	
Module	e coord	inator		Module offered by		
		Professorship of Climatol	ogv	Institute of Geogra	phy and Geology	
ECTS		od of grading	Only after succ. con		, , , , , , , , , , , , , , , , , , , ,	
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
meteor	rologica scriptio	al time-scale of hours up in of weather patterns as	to days. The module well as weather fored	component deals w	f atmospheric conditions on the ith "synoptic meteorology", i.e. c methods, meteorological meass gain themselves will be evalua-	
Intend	ed lear	ning outcomes				
have ex studen this, m	xperien Its shou ake pla	nces of meteorological me ald have the following co anning decisions.	easurement technolo mpetences: to detect	gy and data analysis and understand we	e acquired. Additionally, students s on the computer. Finally, the eather processes and, based on	
		, number of weekly conta tion on SWS (weekly cont				
Metho	d of ass		nguage — if other th	an German, examina	ation offered — if not every seme-	
		ion of one candidate eac ssessment: German, Eng		n in groups (approx.	15 minutes per candidate each)	
Allocat	ion of	places				
Additio	nal inf	ormation				
			-			
Workload						
 						
Teachi	Teaching cycle					
Referre	ed to in	LPO I (examination regu	lations for teaching-	degree programmes)	

Master's degree (1 major) Applied Physical Geography (2013) Master's degree (1 major) Applied Physical Geography (2010)



Module	e title			Abbreviation		
Soil an	d Land	scape change			09-MBG1-102-m01	
Module	e coord	linator		Module offered by		
holder	holder of the Professorship of Soil Science			Institute of Geogra	Institute of Geography and Geology	
ECTS	Meth	od of grading	Only after succ. co	mpl. of module(s)		
5	nume	rical grade				
Duratio	Duration Module level		Other prerequisite	Other prerequisites		
1 seme	1 semester graduate					
Conten	Contents					

The lecture imparts students with knowledge of characteristic landscapes with focus on Central Europe. Thematically, soils, geology, geomorphology and landscape ecology in their interactions play an important role. Within the frame of the course, quaternary research questions are an important element. Besides the areal view, particularly time aspects of the landscape development will considered. The focus of the lecture will be on the importance of development processes of soils and landscapes and their impact on modern geoecological systems and on humans. Moreover, the importance of development processes, particularly with regard to natural hazards, will be covered for applied issues. Questions about the effects of human intervention and their importance for the landscape change will be discussed.

Intended learning outcomes

Students acquire consolidated knowledge by typical examples and contents of current research project in selected natural environment. Subareas of "Physical Geography" like soil, relief, geology and relevant processes in the natural environment should be presented in their interconnectedness. Hence, the focus of the course lies on the learning and recognising of interactions. Scientific findings will be shown by examples of current research and students will be introduced to the respective research state. Next the usage of basic course books, the work with international scientific articles will be very important.

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) Language of assessment: German, English

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

Master's degree (1 major) Applied Physical Geography (2013) Master's degree (1 major) Applied Physical Geography (2010)



Modul	Module title Abbreviation					
Soil ge	eograpl	ny: Lab-analytical and mi	croscopical training	course	09-MBG2-131-m01	
Modul	e coord	linator		Module offered by		
holder	of the	Professorship of Soil Scie	ence	Institute of Geogra	phy and Geology	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duration	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
trips. T docher be lear	The san mical a rned du	nples that students take t nalyses in the lab. Furthe	hemselves will be pro rmore, methods of ho alts of country and lal	ocessed through the eavy mineral analys	start with country courses or field e use of sedimentological and pe- is and/or micromorphology can e united at the end of the tutorial	
Intend	led lear	ning outcomes				
and ev praction the dea	aluation al methaling w	n as a presentation and a hods and process applied ith vocational-related top	a project report at the d issues independent ics	end of the tutorial. ly and thus, will be	as well as their implementation Students should be able to apply prepared for the thesis as well as	
		e, number of weekly conta				
	_	tion on SWS (weekly con				
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme-	
		(approx. 30 minutes) and assessment: German, Eng		ox. 10 pages), weigh	ted 1:1	
Allocat	tion of	places				
Additio	onal inf	formation				
Workload						
Teaching cycle						
Referre	ed to in	LPO I (examination regu	llations for teaching-	degree programmes)	
			-			



Module title					Abbreviation
Work p	laceme	ent / Professional practic	al training for Stude	nts of Applied Phy-	09-MBPR-102-m01
sical G	eograpl	hy			
Module	coordi :	inator		Module offered by	
holder	of the C	Chair of Physical Geograp	ohy	Institute of Geography and Geology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
10	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 semester graduate					
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 eight 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

The work placement should provide insights into practical working processes. The graduates will learn how to implement independent project-related works, i.e. they will acquire skills during the project preparation and planning and/or during the project schedule or evaluation of tasks and how to turn this into reports. Qualified vocational knowledge can be acquired by learning or consolidating of methods

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

P (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)

placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 20 pages)

Language of assessment: German, English

Allocation of places

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Additional information

Additional information on module duration: approx. 8 weeks.

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

Master's degree (1 major) Applied Physical Geography (2013)



Module title Abbreviation						
Metho	Methods in Physical Geography - Practice- and consolidating 1					
Modul	e coord	inator		Module offered by	'	
holder	of the	Chair of Physical Geogra	aphy	Institute of Geogra	phy and Geology	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Durati	on	Module level	Other prerequisites			
1 seme	ester	graduate		•	vice in advance. Recognition by	
			examination commi	ttee.		
Conte	nts					
course	es for ac		ject seminars, in whic		e.g. thematised Cartography, GIS geographical field methods will	
Intend	led lear	ning outcomes				
		e consolidated knowled are able to process litt			d their application. With these target-orientated way.	
Course	es (type	, number of weekly con	tact hours, language –	- if other than Germa	an)	
S (no i	nforma	tion on SWS (weekly co	ntact hours) and cours	e language availabl	e)	
		sessment (type, scope, ion on whether module			ation offered — if not every seme-	
on (ap	prox. 15		elaboration (approx. 15	pages), weighted 1	s), weighted 1:1 or b) presentati: :1 or c) approx. 30 hours of practi-	
Alloca	tion of	olaces				
Additi	onal inf	ormation				
Workle	oad					
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
_	0 2000	are in				
Modul	Module appears in					



Module title Abbreviation						
Methods in Physical Geography: Practice- and consolidating 2				09-MethV-M2-131-m01		
Module coord	inator		Module offered by			
	Chair of Physical Geograp	hv	Institute of Geograp	ohy and Geology		
	od of grading	Only after succ. con		,		
	rical grade		•			
Duration	Module level	Other prerequisites				
1 semester	graduate	Please consult with examination commi	•	vice in advance. Recognition by		
Contents						
courses for ad		ect seminars, in whicl		e.g. thematised Cartography, GIS geographical field methods will		
Intended lear	ning outcomes					
	e consolidated knowledge are able to process little			d their application. With these arget-orientated way.		
Courses (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)		
S (no informat	ion on SWS (weekly cont	act hours) and cours	e language available	<u>e</u>)		
	sessment (type, scope, la on on whether module ca			ation offered — if not every seme-		
on (approx. 15		aboration (approx. 15	pages), weighted 1:	s), weighted 1:1 or b) presentati- :1 or c) approx. 30 hours of practi-		
Allocation of p	olaces	·				
Additional info	ormation					
Workload						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appea	Module appears in					
Master's degree (1 major) Applied Physical Geography (2013)						



Module title Abbreviation							
Geolog	gy of mi	neral deposits			09-MLG1-102-m01		
Module	e coord	inator		Module offered by			
	of the I esearch	Professorship of Geodyna	imics and Geomate-	Institute of Geograp	phy and Geology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	its						
mical a	ccumu diment	lation of such raw materi	als will be processed	exemplarily. This co	rocesses that lead to an econo- omprises igneous, hydrothermic es, industrial minerals as well as		
Intend	ed lear	ning outcomes					
examp	les dur	ing "deposit geology". Fu	rther, they acquire th	e ability to genetical	esearch, by the means of current lly classify existing and new mi- tation and exploration strategies		
Course	s (type	, number of weekly conta	ct hours, language –	if other than Germa	ın)		
V (no ii	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	e)		
		sessment (type, scope, la on on whether module ca			tion offered — if not every seme-		
		nation (30 minutes) or or ssessment: German, Eng		e candidate each (ap	prox. 30 minutes)		
Allocat	ion of						
Additio	nal inf	ormation					
Worklo	ad						
	-						
Teachi	ng cycl	e					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	e appea	rs in					
Master	's degr	ee (1 major) Applied Phys	ical Geography (2013	3)			
Master	Master's degree (1 major) Applied Physical Geography (2010)						



Module title Abbreviation							
Mineral exploration	n methods			09-MLG2-131-m01			
Module coordinator	r		Module offered by				
holder of the Profes	ssorship of Geodyna	mics and Geomate-	Institute of Geograp	ohy and Geology			
rials Research							
ECTS Method of	i i i i i i i i i i i i i i i i i i i	Only after succ. com	ıpl. of module(s)				
5 numerical g		 					
	ule level	Other prerequisites					
1 semester grad	uate						
Contents							
new mineral deposi		lobal context. Thus,		cal methods for the discovery of be on the practical application			
Intended learning o	outcomes						
ploration and asses geological contexts	ssment of mineral d	eposits. The basics raints up to basically g	ange from consolida	on, modern methods for the ex- ted understanding of structural s for an improved characterisation			
Courses (type, num	ber of weekly conta	ct hours, language –	if other than Germa	n)			
Ü (no information o	n SWS (weekly cont	act hours) and cours	e language available	e)			
		nguage — if other tha an be chosen to earn		tion offered — if not every seme-			
prox. 30 minutes pe			ne candidate each c	or oral examination in groups (ap-			
Allocation of places	<u> </u>						
Additional informat	tion						
Workload							
Teaching cycle							
Referred to in LPO I	(examination regu	lations for teaching-c	legree programmes)				
	(=)(=)(=)(=)(=)(=)(=)(=)(=)(=)(=)(=)(=)(
Module appears in	Module appears in						
Waster's degree (1 major) Applied Physical Geography (2013)							



Module	Module title Abbreviation						
Geoinfo	Geoinformatics / GIS / Data bank management 09-MMT7-102-m01						
Module coordinator Module offered by							
holder	of the I	Professorship of Climatol	ogy	Institute of Geograp	phy and Geology		
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
No info	rmatio	n on contents available.	_				
Intende	ed lear	ning outcomes					
No info	rmatio	n on intended learning o	utcomes available.				
Course	s (type	, number of weekly conta	act hours, language –	· if other than Germa	an)		
Ü (no ir	nforma	tion on SWS (weekly con	tact hours) and cours	e language available	e)		
ster, in	formati e work	ion on whether module c	an be chosen to earn ral examination of or	a bonus)	ntion offered — if not every seme- upprox. 15 minutes), weighted 1:1		
Allocat	ion of	olaces					
Additio	nal inf	ormation					
Worklo	ad						
Teachi	ng cycl	e					
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module	Module appears in						
Master	Master's degree (1 major) Applied Human Geography (2010)						
	_	ee (1 major) Applied Phys	• , , .	•			
Master	Master's degree (1 major) Applied Physical Geography (2010)						



Module	Abbreviation						
Specia	l Issue:	s of Advanced Physical G	eography I		09-MPG4-102-m01		
Module	coord	inator		Module offered by			
holder	of the (Chair of Physical Geograp	hy	Institute of Geography and Geology			
ECTS	Metho	od of grading	Only after succ. compl. of module(s)				
5	numerical grade						
Duratio	n	Module level	Other prerequisites				
1 semester graduate							
Contents							
In the tutorial and using current academic knowledge, complex issues of physical-geographical topics will be developed. Students will be provided with theoretical and methodological approaches as well as their regional application or relevance in particular. Under tutelage, students will be able to present and evaluate new issues to Geography on the basis of an established understanding of common scientific methods in presentations and discussions.							

Intended learning outcomes

Students acquire consolidated knowledge of selected topic areas of "Physical Geography". They will be introduced to the state of research and learn to process and evaluate scientific results as well as to use them context-related. Students acquire the ability to prepare scientific specialised literature themed, to conceptualise and present scientific texts as well as to analyse, structure and process issues of "Physical Geography" by theoretical and methodological research approaches.

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

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)

presentation (approx. 30 minutes) with written elaboration (approx. 30 pages), weighted 1:1 Language of assessment: German, English

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

Master's degree (1 major) Applied Physical Geography (2013)



Module	title				Abbreviation	
Special	Issues	of Advanced Physical	Geography II		09-MPG5-102-m01	
Module coordinator				Module offered by	Module offered by	
holder of the Chair of Physical Geography			phy	Institute of Geogra	phy and Geology	
ECTS				npl. of module(s)		
5	numer	ical grade				
Duration Module level Other prere		Other prerequisites	requisites			
1 semes	ter	graduate				
Content	:S		•			
lysis and discussion about papers from fellow students and technical skills, the ability to take criticism and the current status of academic discussion as well as methodological knowledge during the processing of scientific issues. The topics of the papers give all an overview of the latest state-of-the-art in this topic area. The analysis of the latest state-of-the-art, which can particularly be found in scientific journals, is a precondition in order to process successfully. During the tutorial, feedback will take place through the direct discussion and the preliminary discussion and debriefing with the conference manager. Intended learning outcomes Students acquire consolidated knowledge of selected topic areas of "Physical Geography". They will be introduced to the state of research and learn to process and evaluate scientific results as well as to use them context-related. Students acquire the ability to prepare scientific specialised literature themed, to conceptualise and present scientific texts as well as to analyse, structure and process issues of "Physical Geography" by theoretical and methodological research approaches.						
Courses	(type,	number of weekly cont	act hours, language –	- if other than Germa	an)	
Ü (no in	format	ion on SWS (weekly cor	ntact hours) and cours	se language availabl	e)	
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. 30 pages), weighted 1:1 Language of assessment: German, English						
Allocation of places						
Additional information						
Workload						
Teaching cycle						
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Referred to in LPO I (examination regulations for teaching-degree programmes)

Master's degree (1 major) Applied Physical Geography (2013) Master's degree (1 major) Applied Physical Geography (2010)



Module title Abbreviation						
Applied Project: Change and protection of geosystems 09-MPP1-102-m01						
Modul	e coord	inator		Module offered by		
holder of the Chair of Physical Geography			ohy	Institute of Geogra	phy and Geology	
ECTS				npl. of module(s)		
15	numerical grade					
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conter	ıts					
implementation and the completion of scientific issues with different specific focuses. As a result from this combination, e.g. "Geomorphology", "Remote Sensing", "GIS", students will be able to form an individual specific focus. The data collection from their work placement project can be used as a basis in order to write a comprehensive master's thesis.						
		ning outcomes				
Students acquire in-depth knowledge of the advanced application of selected topic areas of "Physical Geography". The work placement is designed as a project work placement. Skills of defining, organising and planning work flows, which have been acquired during the bachelor's project seminars, as well as collecting data and to process, analyse and present them, should be consolidated. A project should be processed independently by using different technical methods. Thus, the students acquire advanced skills of project coordination, problem analysis and presentation of results.						
Course	s (type	, number of weekly conta	act hours, language –	- if other than Germa	an)	
P (no i	nformat	ion on SWS (weekly cont	tact hours) and cours	e language available	e)	
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)						
project report (approx. 30 pages) Language of assessment: German, English						
Allocation of places						
						
Additional information						
Worklo	ad		_			
	-		-			

Teaching cycle

Master's degree (1 major) Applied Physical Geography (2013)

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



Module	e title		Abbreviation				
Statist	ics 3				09-MSTAT3-102-m01		
Module	e coord	inator		Module offered by			
holder	of the	Chair of Physical Ge	ography	Institute of Geography and Geology			
ECTS	Meth	Method of grading Only after succ. co		mpl. of module(s)			
5	nume	merical grade					
Duratio	Duration Module level		Other prerequisites	Other prerequisites			
1 seme	ster	graduate					
Conten	Contents						

Geoscientific issues will often be studied with the help of larger data sets. Already at the level of the master's thesis, the use of univariate and multivariate processes of statistic, which can only be implemented on the computer due to the amount of data, will be necessary in certain cases - particularly to "Climatology and Remote Sensing" - the amount of data is as large or in some cases too specific that common statistical programmes like SPSS, R, S or even Excel cannot be used. Thus, in the module "Statistics III" common and specific processes of univariate and multivariate statistic will be implemented on the computer with the help of basic programming language FORTRAN and by plausible examples from different areas of Geography.

Intended learning outcomes

Based on the theoretical knowledge of uni and multivariate statistics, which has been acquired during the B.A., the module "Statistics III" will provide students with qualifications in the area of applying statistical processes. Next to the statistical-methodological aspects, programming skills will be implemented, as it is more and more a key qualification for geographers in the vocational and research fields. Processes, which are listed in the module component description, will be applied to current examples from the geographical research and practice in order to serve students as a target-oriented preparation for the master's thesis.

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

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)

practice work (approx. 15 pages) and oral examination of one candidate each or oral examination in groups (approx. 15 minutes per candidate each), weighted 1:1

Language of assessment: German, English

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

Master's degree (1 major) Applied Human Geography (2010)

Master's degree (1 major) Applied Physical Geography (2013)



Module title					Abbreviation	
Remote Sensing of land surface parameters					09-RELA1-102-m01	
Module coordinator				Module offered by		
holder of the Professorship of Remote Sensing				Institute of Geography and Geology		
ECTS	Meth	ood of grading Only after succ. com		ıpl. of module(s)		
5	nume	rical grade				
Duration Module level			Other prerequisites			
1 semester graduate		graduate				
Contents						
The module deals with the remote sensing acquisition of the land surface and characterisation or quantification of relevant state variables. The main focus and perspective will be on their function as resource. The course						

The module deals with the remote sensing acquisition of the land surface and characterisation or quantification of relevant state variables. The main focus and perspective will be on their function as resource. The course provides students with methods for the acquisition of surface types like vegetation, water, soil, and urban areas as well as parametrisations for quantification and characterisation of conditions of different surface types (including vegetation and soil parameters, sealing level). Furthermore, students will be provided with methodological competences of landscape analysis (e.g. analysis of location relation, fragmentation of landscape elements, urban structure) as well as (inter) national evaluation approach, monitoring process and programmes and practical application example that will be covered.

Intended learning outcomes

Students acquire skills of methodological aspects and substantive assessment of parameters of the land surface against the background of different geographical cases of application. Thus, the basics for the understanding of remote sensing datasets and methods as well as the observed processes on land surfaces will be created. Through the kind and complexity of the issues, the interdisciplinary work will be encouraged.

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

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)

project report (approx. 20 pages) or poster Language of assessment: German, English

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

Master's degree (1 major) Applied Physical Geography (2013)



Module title Abbreviation							
Dynamics of the land surfaces					09-RELA2-102-m01		
Module coordinator				Module offered by			
holder of the Professorship of Remote Sensing			Sensing	Institute of Geography and Geology			
ECTS	· · · · · · · · · · · · · · · · · · ·		Only after succ. con				
5	$\overline{}$	rical grade		•			
		Other prerequisites					
1 seme	ester	graduate					
Conter	nts						
mics o surface fication on and	f the la e with t n as we I evalua	nd surface will be consoli he atmosphere), the sust ell as the biodiversity rese	idated on the basis o ainable land and wat arch. Methodologica cal parameters, remo	f issues about the cler management, the lly, the focus will be te sensing quantific	gained knowledge about dyna- limate change (interaction of land e land degradation and deserti- on the multitemporal derivati- cation of flow of substances on		
Intend	ed lear	ning outcomes					
evalua	te dyna	amics of the land surface	from different perspe	ectives. Thanks to th	in order to be able to acquire and e type and complexity of the pre- id strategies will be encouraged		
Course	s (type	, number of weekly conta	ct hours, language –	- if other than Germa	an)		
Ü (no i	nforma	tion on SWS (weekly cont	tact hours) and cours	e language availabl	e)		
		sessment (type, scope, la ion on whether module ca			ation offered — if not every seme-		
		(approx. 20 pages) or po assessment: German, Eng					
Allocat	tion of	places					
Additional information							
Workload							
							
Teaching cycle							
							
Referred to in LPO I (examination regulations for teaching-degree programmes)							

Master's degree (1 major) Applied Physical Geography (2013) Master's degree (1 major) Applied Physical Geography (2010)