

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



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The subject is divided into

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Content and Objectives of the Programme

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.



Compulsory Courses

(35 ECTS credits)



Modul	e title		Abbreviation			
Statist	tics 3				09-MSTAT3-102-m01	
Modul	e coord	linator		Module offered by		
holder	of the	Chair of Physical Ge	ography	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 Oth		Other prerequisites	Other prerequisites		
1 seme	1 semester graduate -					
Conter	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 is creditable for 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

--

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)

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



Module title					Abbreviation	
Geoinf	ormatio	09-MMT7-102-m01				
Modul	e coord	inator		Module offered by	,	
holder	of the F	Professorship of Climatol	ogy	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	ıpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conter	ıts		•			
No info	rmatio	n on contents available.				
Intend	ed learı	ning outcomes				
No info	rmatio	n on intended learning o	utcomes available.			
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
Ü (no i	nforma	tion on SWS (weekly cont	tact hours) and cours	e language available	e)	
		sessment (type, scope, langua	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
		(approx. 15 pages) and o ssessment: German, Eng		e candidate each (a	pprox. 15 minutes), weighted 1:1	
	tion of p					
Additio	onal inf	ormation				
Worklo	ad					
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
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 title				Abbreviation		
Applied Project: Change and protection of geosystems 09-MPP1-102-m01					09-MPP1-102-m01	
Module coordinator Module offered by						
holder	of the	Chair of Physical Geograp	hy	Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)		
15	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
implem binatio cus. Th sive ma	nentation, e.g. e data aster's	on and the completion of "Geomorphology", "Remocollection from their worl thesis.	scientific issues with ote Sensing", "GIS", s	different specific fo students will be able	ares for the independent work, ocuses. As a result from this comto form an individual specific fois in order to write a comprehen-	
Intende	ed lear	ning outcomes				
using d analysi	lifferen s and p	t technical methods. Thu presentation of results.	s, the students acqui	re advanced skills o	e processed independently by f project coordination, problem	
		number of weekly contact hours, l			`	
		tion on SWS (weekly cont				
		Sessment (type, scope, langua ble for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
		(approx. 30 pages) ssessment: German, Eng	lish			
Allocat	ion of	places				
Additio	Additional information					
- -						
Workload						
						
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in						



Module	e title		Abbreviation			
Work p		ent / Professional praction	09-MBPR-102-m01			
Module	e 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. com	succ. compl. of module(s)		
10	(not)	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semester graduate						
Conten	ts					
The wo	rk nlac	ement has to be complet	ad in a modula-ralay:	ant office or compan	v which fits the professional	

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 is creditable for 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

Compulsory Electives

(55 ECTS credits)



Core Courses Specialisation in the Scientific Discipline

(40 ECTS credits)



Module title				Abbreviation	
Specia	Special Issues of Advanced Physical Geography I 09-MPG4-102-mo1				
Module	e coord	inator		Module offered by	
holder	of the	Chair of Physical Geograp	hy	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	ester	graduate			
Conten	nts				
plication Geogra discus	on or re aphy on sions.	levance in particular. Und the basis of an establish	der tutelage, student:	s will be able to pres	ches as well as their regional ap- sent and evaluate new issues to methods in presentations and
Intend	ed lear	ning outcomes			
sent so and me	cientific ethodo		se, structure and produces.	cess issues of "Phys	emed, to conceptualise and pre- ical Geography" by theoretical
Ü (no i	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	e)
			${\sf ge-if}$ other than ${\sf German, o}$	examination offered $-$ if no	ot every semester, information on whether
	-	ole for bonus)		(
		(approx. 30 minutes) with ssessment: German, Eng		(approx. 30 pages), (weignted 1:1
Allocat	tion of	olaces			
Additio	onal inf	ormation			
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
Master's degree (1 major) Applied Physical Geography (2013)					

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



Module	e title				Abbreviation
Specia	l Issues	s of Advanced Physical (eography II		09-MPG5-102-m01
Module	e coord	inator		Module offered by	l .
holder	of the (Chair of Physical Geogra	ohy	Institute of Geograp	phy and Geology
ECTS	Metho	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	its				
of the l proces nary di	atest st s succe scussio	tate-of-the-art, which can essfully. During the tutor on and debriefing with th	n particularly be found al, feedback will take	d in scientific journa place through the d	t in this topic area. The analysis ls, is a precondition in order to lirect discussion and the prelimi-
		ning 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.					
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	rman)	
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 is creditable for bonus)					
presentation (approx. 30 minutes) with written elaboration (approx. 30 pages), weighted 1:1 Language of assessment: German, English					
Allocation of places					

Allocation of places

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Additional information

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Workload

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Teaching cycle

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 $\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

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Module appears in



Module	e title				Abbreviation
Climat	Climatology: climate change, implications and protection 09-MAT1-102-mo1				
Module	e coord	inator		Module offered by	I.
holder	of the I	Professorship of Climatol	ogy	Institute of Geogra	phy and Geology
ECTS	Metho	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	its				
blem c assess dings v	omplex ed in th vill be p	"climate change", where ne light of natural climate	eas the anthropogeni factors and fluctuati fical as well as socio-	c influencing on the ons. Observed clima economic conseque	dule component pursues the pro- terrestrial climate system will be ate signs and climate model fin- ences of the climate change will policy will be highlighted
Intend	ed lear	ning outcomes			
explicit mate fa climate geo res	t descri actors v e chang source	ptions of atmospheric pr vill be discussed. Hence, e and learn to evaluate o	ocesses. Especially, students get a profo ther issues to "earth	the causal relations und understanding sciences" against th	asis of physical and mathematical of natural and anthropogenic cliof the problems of anthropogenic he background of the changeable
		number of weekly contact hours, l			
		ion on SWS (weekly cont			
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if n	ot every semester, information on whether
written	exami	nation (approx. 60 minut ssessment: German, Eng	-		
	ion of p				
Additio	nal inf	ormation			
Workload					
Teaching cycle					
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module appears in					

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



Module title					Abbreviation	
Meteoro	logy: sy	noptic meteorolog	y and weather forecasti	ng	09-MAT2-102-m01	
Module o	coordin	ator		Module offered b	oy	
holder of	f the Pro	ofessorship of Clim	atology	Institute of Geog	raphy and Geology	
ECTS I	Method	of grading	Only after succ. con	npl. of module(s)		
5 r	numeric	al grade				
Duration	N	Module level	Other prerequisites	1		
1 semest	ter g	raduate				
Contents	5		`			
suremen ted.	it metho	•			eric methods, meteorological mea- ents gain themselves will be evalua-	
stems, ir have exp students this, mak	nportar perience s should ke plani	nt skills in the area es of meteorologica I have the following ning decisions.	of quantitative and numed in the second of t	eric processes will gy and data analy and understand v	cess understanding of complex syll be acquired. Additionally, students sis on the computer. Finally, the weather processes and, based on	
			contact hours) and cours		hle)	
	of asses	ssment (type, scope, la			f not every semester, information on whether	
		n of one candidate sessment: German,		in groups (appro	x. 15 minutes per candidate each)	
Allocatio	on of pla	aces				
Additional information						
						
Workload						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Referred	to in LF	PO I (examination regul	ations for teaching-degree progra	ammes)		

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

Module appears in



Modul	e title		Abbreviation			
Soil an	Soil and Landscape change				09-MBG1-102-m01	
Modul	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. c	ompl. of module(s)		
5	nume	rical grade				
Duratio	Duration Module level Othe		Other prerequisit	Other prerequisites		
1 seme	1 semester graduate					
Conter	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 is creditable for 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

--

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

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Module appears in



Module	Module title				Abbreviation	
Soil ge	ograph	ıy: Lab-analytical and mi	croscopical training	course	09-MBG2-131-m01	
Module	e coord	inator		Module offered by		
holder	of the I	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				
Duratio	on	Module level	Other prerequisites	i		
1 seme	ster	graduate				
Conten	its					
trips. T docher be lear	he sam nical a ned du	ples that students take t nalyses in the lab. Furthe	hemselves will be pro rmore, methods of he alts of country and lat	ocessed through the eavy mineral analysi	start with country courses or field use of sedimentological and pe- s and/or micromorphology can united at the end of the tutorial	
Intende	ed lear	ning outcomes				
and eva practic the dea	aluatio al meth aling w	n as a presentation and a	a project report at the dissues independent ics	end of the tutorial. ly and thus, will be p	as well as their implementation Students should be able to apply prepared for the thesis as well as	
Ü (no ir	nforma	tion on SWS (weekly cont	tact hours) and cours	e language availabl	e)	
		sessment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
		(approx. 30 minutes) and ssessment: German, Eng		ox. 10 pages), weigh	ted 1:1	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Workload						
						
Teaching cycle						
						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	Module appears in					

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



Module title Abbreviation					Abbreviation	
Remote Sensing of land surface parameters 09-RELA1-102-m01					09-RELA1-102-m01	
Module	e coord	inator		Module offered by		
		Professorship of Remote S	Sensing	Institute of Geograp	ohy and Geology	
ECTS		od of grading	Only after succ. con		,	
5		rical grade		•		
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
as well ding ve compe ban str	as par getatic tences ucture)	ametrisations for quantifion and soil parameters, so of landscape analysis (e.	ication and character ealing level). Furtherr g. analysis of locatio al evaluation approac	isation of conditions nore, students will b n relation, fragmenta	cion, water, soil, and urban areas s of different surface types (inclu- be provided with methodological ation of landscape elements, ur- ss and programmes and practical	
Intende	ed lear	ning outcomes				
face ag ding of ted. Th	remote remote rough t	he background of differer	nt geographical cases ethods as well as the of the issues, the inte	s of application. Thus e observed processe rdisciplinary work w	of parameters of the land surs, the basics for the understans on land surfaces will be creaill be encouraged.	
	-	tion on SWS (weekly cont			2)	
		· · · · · · · · · · · · · · · · · · ·			ot every semester, information on whether	
		ole for bonus)				
		(approx. 20 pages) or possessment: German, Eng				
Allocat	ion of p	olaces				
	,					
Additio	nal inf	ormation				
Worklo	ad					
Teaching cycle						
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in						



Module title Abbreviation					Abbreviation	
Dynamics of the land surfaces 09-RELA2-102-m01					09-RELA2-102-m01	
Module	e coord	inator		Module offered by		
holder	of the I	Professorship of Remote	Sensing	Institute of Geogra	phy and Geology	
ECTS	Metho	od of grading	Only after succ. con	ıpl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	its					
surface fication on and	e with the as we evalua	he atmosphere), the sust ll as the biodiversity rese	ainable land and wat earch. Methodologica cal parameters, remo	er management, the lly, the focus will be te sensing quantific	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	mics of the land surface	from different perspe	ctives. Thanks to th	in order to be able to acquire and e type and complexity of the pre- nd strategies will be encouraged	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)		
Ü (no iı	nforma	tion on SWS (weekly cont	tact hours) and cours	e language availabl	e)	
		sessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether	
		(approx. 20 pages) or po				
		ssessment: German, Eng	usn			
Allocat	ן זס ווטו.	Jiaces				
 	nal !=£	ormation				
	nial IIII	uiiialiuii				
Worklo						
WUIKIO	au					
Teachi	no cvel	Δ				
	Teaching cycle					
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
	<u>.u to 111</u>	Li VI (examination regulation)	s for teaching-degree progra	iiiiies)		
Module	e appea	ars in				
Module appears in						



Module title					Abbreviation		
Geolog	y of mi	neral deposits			09-MLG1-102-m01		
Modul	e coord	inator		Module offered by			
	of the F esearch	Professorship of Geodyna	imics and Geomate-	Institute of Geograp	phy and Geology		
ECTS	Metho	od of grading	Only after succ. com	ipl. of module(s)			
5	nume	rical grade					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conter	its						
and se rocks a	diment and ear				omprises igneous, hydrothermic es, industrial minerals as well as		
examp neral d	les duri eposits	ing "deposit geology". Fu and thus, also the basis	rther, they acquire th of the assessment o	e ability to genetical f prospective exploit	esearch, by the means of current ly classify existing and new mi- tation and exploration strategies		
	-	number of weekly contact hours, l					
	-	ion on SWS (weekly cont					
		sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	et every semester, information on whether		
		nation (30 minutes) or or ssessment: German, Eng		e candidate each (ap	prox. 30 minutes)		
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
	_						
Worklo	ad						
	-						
Teachi	ng cycl	e					
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	e appea	rs in					
	_	ee (1 major) Applied Phys					
Master	Master's degree (1 major) Applied Physical Geography (2010)						



Module title Abbreviation					Abbreviation		
Minera	l explo	ration methods		09-MLG2-131-m01			
Module	coord	inator		Module offered by			
holder rials Re		Professorship of Geodyna	amics and Geomate-	Institute of Geograp	bhy and Geology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
new mi	neral d		global context. Thus,		cal methods for the discovery of se on the practical application		
Intende	ed lear	ning outcomes					
geologi and lim	ical cor iitation		ints up to basically g t mineral deposits	eophysical methods	ted understanding of structural for an improved characterisation		
		tion on SWS (weekly cont			<u>e</u>)		
		eessment (type, scope, langua le for bonus)	ge — if other than German, o	examination offered — if no	et every semester, information on whether		
prox. 30	o minu	oprox. 10 to 15 pages) or tes per candidate each) ssessment: German, Eng		ne candidate each c	or oral examination in groups (ap-		
Allocat	ion of p	olaces					
Additio	nal inf	ormation					
Worklo	ad						
Teachir	ng cycl	e					
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)			
Module	appea	rs in					
Master'	Master's degree (1 major) Applied Physical Geography (2013)						



Minor-specific Specialisation

(15 ECTS credits)



Modul	Module title Abbreviation					
Planni	Planning Law				09-HGExp-MSc-PIR1-102-m01	
Modul	Module coordinator			Module offered by		
holder Scienc		Professorship of Geograp	hy and Regional	Institute of Geograp	phy 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				
Conter	its	,	•			
nologio fields o	cal and of appli	methodological foundat cation			-use plans. Theoretical, termi- s legal basis and most common	
		ning outcomes				
		nning regulations; Compents of the schedule and inter			ed nomenklatura and their hand- le levels	
Course	S (type,	number of weekly contact hours,	anguage — if other than Ge	rman)		
V (no i	nforma	tion on SWS (weekly con	act hours) and cours	e language available	2)	
		sessment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether	
written	exami	nation (approx. 45 minut	es)			
Allocat	ion of	places				
Additio	nal inf	ormation				
Worklo	ad					
Teachi	ng cycl	e				
Referre	Referred to in LPO I (examination regulations for teaching-degree programmes)					
Modul	Module appears in					
	Master's degree (1 major) Applied Physical Geography (2013)					
Master	Master's degree (1 major) Applied Physical Geography (2010)					



Module title					Abbreviation	
Regional and Enviromental Planning					09-HGExp-MSc-RUPI1-102-m01	
Module	coord	inator		Module offered by	'	
holder (Science		Professorship of Geograp	hy and Regional	Institute of Geogra	phy and Geology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
mode o	f actio	n of official and unofficia	l tools (including reg	ional planning proce	es, concepts as well as use and edure and environmental impact ental specialist planning in Ger-	
Intende	ed lear	ning outcomes				
as form	al and	•	ıl development plann	ing and regional dev	categories, conceptions as well velopment; Skills of qualified ap-	
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ger	rman)		
V (no in	format	tion on SWS (weekly cont	act hours) and cours	e language availabl	e)	
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if n	ot every semester, information on whether	
written	examiı	nation (approx. 45 minut	es)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Teaching cycle						
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
Module	appea	rs in				
	Master's degree (1 major) Applied Physical Geography (2013)					

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



Modul	e title				Abbreviation	
Visualization, monitoring and communication (Thematic Mapping) 09-HG-MSc-ThemK1-102-mo						
Modul	e coord	inator		Module offered by	I.	
holder Scienc		Professorship of Geograp	hy and Regional	Institute of Geogra	phy 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				
Conter	its					
Applica	ation of				m the area "Applied Geography". naps or maps-related presentati-	
Intend	ed lear	ning outcomes				
		uire consolidated content tographic presentation of		al skills in the area o	of data organisation and analysis	
Course	S (type, 1	number of weekly contact hours, l	anguage — if other than Ger	rman)		
S (no i	nforma	tion on SWS (weekly cont	act hours) and cours	e language availabl	e)	
		sessment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if n	ot every semester, information on whether	
5 exerc	ises (a	pprox. 20 pages)				
Allocat	ion of	places				
	-					
Additio	nal inf	ormation				
Worklo	ad					
Teachi	ng cycl	е				
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)		
<u></u>						
Module appears in						
Master's degree (1 major) Applied Physical Geography (2013)						
Master	Master's degree (1 major) Applied Physical Geography (2010)					



Module	Module title Abbreviation					
Specia	Special Issues of Human Geography 1 09-HGExp-SpezHG1-102-mo1					
Module coordinator				Module offered by		
holder	of the F	Professorship of Social G	eography	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. com	ipl. of module(s)	<u> </u>	
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
		leals with and consolidat	es chosen issues of "	Theoretical and App	lied Human Geography" from a	
Intende	ed learı	ning outcomes				
on-orie	nted in		sess the ability to pro	duce seminar paper	nan Geography" and its applicati- rs on the basis of individual lite- esentation.	
Course	S (type, n	number of weekly contact hours, l	anguage — if other than Ger	man)		
S (no ir	nformat	tion on SWS (weekly cont	act hours) and cours	e language available	<u>a)</u>	
		sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	ot every semester, information on whether	
presen	tation (approx. 30 minutes) with	written elaboration	(approx. 20 pages),	weighted 1:1	
Allocat	ion of p	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's degree (1 major) Applied Physical Geography (2013)						
Master	Master's degree (1 major) Applied Physical Geography (2010)					



Module title Abbreviation						
Specia	Special Issues of Human Geography 2 09-HGExp-SpezHG2-102-mo					
Modul	e coord	inator		Module offered by		
holder	of the I	Professorship of Social G	eography	Institute of Geograp	ohy and Geology	
ECTS	Metho	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		•			
		leals with and consolidat Iuman Geography".	tes chosen issues of '	'Theoretical and App	lied Human Geography" from a	
Intend	ed learı	ning outcomes				
on-orie	entated		ossess the ability to p	roduce seminar pap	nan Geography" and its applicatiers on the basis of individual lipresentation.	
Course	es (type, r	number of weekly contact hours,	language — if other than Ger	man)		
S (no i	nformat	tion on SWS (weekly con	tact hours) and cours	e language available	<u>e)</u>	
		sessment (type, scope, langua	age — if other than German, o	examination offered — if no	t every semester, information on whether	
presen	tation ((approx. 30 minutes) with	n written elaboration	(approx. 20 pages),	weighted 1:1	
Allocat	tion of p	olaces		· · ·		
Additio	onal inf	ormation	-			
Worklo	oad					
Teachi	ng cycl	e				
	-					
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	Module appears in					
Master's degree (1 major) Applied Physical Geography (2013)						
Master	Master's degree (1 major) Applied Physical Geography (2010)					



Module title				Abbreviation		
Subject disciplinary development for Students of Applied Physical Geograph				09-FwVPG-M1-131-m01		
Module coord	linator		Module offered by			
holder of the	Chair of Physical Geograp	ohy	Institute of Geograp	phy and Geology		
ECTS Meth	od of grading	Only after succ. com	pl. of module(s)			
5 nume	rical grade					
Duration	Module level	Other prerequisites				
1 semester	graduate	Please consult with examination commi		vice in advance. Recognition by		
Contents						
Courses that	consolidate technical ski	ls, e.g. seminars like	"Special or Applied	Physical Geography".		
Intended lear	ning outcomes					
utilisation, see Physical Geog but also to propast. These im use and deve Courses (type, to some second sec	ettlements, transport route graphy is not only able to edict changes in future by apportant planning decision lopment, are given weigh number of weekly contact hours, tion on SWS (weekly contact sessment (type, scope, languate ole for bonus) nation (approx. 45 minut	es etc.). Through the of derive predications for analysing the development of the task of Physical anguage — if other than German, or act hours) and course ge — if other than German, or act hours) or presentation (a	quantitative acquisit or the capability and opment and change erning the managen cal Geography in the man) e language available examination offered — if no pprox. 30 minutes)			
ted 1:1			and poster presente	tuon (approx. 15 minutes), weigh		
Allocation of	places					
Additional inf	ormation					
 M						
Workload 						
Teaching cycl	Teaching cycle					
Referred to in	LPO I (examination regulation	s for teaching-degree progra	mmes)			
Module appea	ars in					
Master's degree (1 major) Applied Physical Geography (2013)						



Module title	Abbreviation				
Subject disciplinary development for Students of Applied Physical Geograph 2			09-FwVPG-M2-131-m01		
Module coordinator		Module offered by			
holder of the Chair of Physical Geograp	phy	Institute of Geograp	ohy and Geology		
ECTS Method of grading	Only after succ. com	pl. of module(s)			
5 numerical grade					
Duration Module level	Other prerequisites				
1 semester graduate	Please consult with examination commi		vice in advance. Recognition by		
Contents					
Courses that consolidate technical ski	lls, e.g. seminars like	"Special or Applied	Physical Geography".		
Intended learning outcomes					
environment and its anthropogenic tra utilisation, settlements, transport rout Physical Geography is not only able to but also to predict changes in future be past. These important planning decision use and development, are given weigh Courses (type, number of weekly contact hours, S (no information on SWS (weekly contact) Method of assessment (type, scope, languate module is creditable for bonus) written examination (approx. 45 minut 20 pages), weighted 1:1 or project repo	es etc.). Through the derive predications for y analysing the development to the task of Physical language — if other than German, eage — if other than German, e	quantitative acquisited the capability and opment and change erning the managen (al Geography in the man) e language available examination offered — if no opprox. 30 minutes)	tion of current process structures, a capacity of geological systems, of geographical territories in the ment as well as the sustainable practical area.		
ted 1:1					
Allocation of places					
Additional information					
Teaching cycle					
Referred to in LPO I (examination regulation		mmes)			
Module appears in					
Master's degree (1 major) Applied Physical Geography (2013)					



Module	Module title Abbreviation					
Methods in Physical Geography - Practice- and consolidating 1 09-MethV-M1-131-m01					09-MethV-M1-131-m01	
Module	coord	inator		Module offered by		
holder	of the (Chair of Physical Geog	raphy	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate	Please consult with examination commi		vice in advance. Recognition by	
Conten	ts					
courses	s for ac		roject seminars, in whic		e.g. thematised Cartography, GIS geographical field methods will	
Intende	d lear	ning outcomes				
			edge of additional geogr ittle problems in a solut		d their application. With these arget-orientated way.	
Course	S (type, r	number of weekly contact hou	ırs, language — if other than Ge	rman)		
S (no in	ıforma	tion on SWS (weekly c	ontact hours) and cours	se language available	2)	
		sessment (type, scope, lar ole for bonus)	nguage — if other than German,	examination offered — if no	ot every semester, information on whether	
on (app	rox. 15	; minutes) with writter		pages), weighted 1:	s), weighted 1:1 or b) presentati- 1 or c) approx. 30 hours of practi-	
Allocat	ion of _I	places				
Additio	nal inf	ormation				
Worklo	ad					
Teachir	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module	appea	ars in				
Master'	Master's degree (1 major) Applied Physical Geography (2013)					



Modul	e title	,			Abbreviation	
Methods in Physical Geography: Practice- and consolidating 2 09-MethV-M2-131-m01					09-MethV-M2-131-m01	
Module coordinator				Module offered by		
holder of the Chair of Physical Geograph		ohy	Institute of Geograp	ohy and Geology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duration Module level Other prerequ		Other prerequisites	equisites			
1 seme	ester	graduate	l .	Please consult with course advisory service in advance. Recognition by examination committee.		
Conten	nts					
course	s for ad		ect seminars, in which		e.g. thematised Cartography, GIS geographical field methods will	
Intend	ed lear	ning outcomes				
		e consolidated knowledg vare able to process little			d their application. With these arget-orientated way.	
Course	S (type, r	number of weekly contact hours,	language — if other than Ger	man)		
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 is creditable for bonus)						
a) project report (approx. 15 pages) and poster presentation (approx. 10 minutes), weighted 1:1 or b) presentation (approx. 15 minutes) with written elaboration (approx. 15 pages), weighted 1:1 or c) approx. 30 hours of practice work (approx. 5 pieces of practice work to be completed)						
Allocation of places						
Additio	onal inf	ormation				
Worklo	oad					
Teachi	ng cycl	e				
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Modul	Module appears in					
Master	r's degr	ee (1 major) Applied Phys	sical Geography (2013	3)		



Module	Module title Abbreviation					
Field Course for Students of Applied Physical Geography 09-GP-M-131-m01					09-GP-M-131-m01	
Module	e coord	linator		Module offered by		
holder	of the	Chair of Physical Geograp	hy	Institute of Geograp	ohy and Geology	
ECTS	Meth	od of grading	Only after succ. com	npl. of module(s)		
5	nume	rical grade	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			
Duratio	on	Module level	Other prerequisites	Other prerequisites		
1 seme	ster	graduate				
Conten	its					
		consolidate the use of ge field methods have to be			ted with project works, in which	
Intend	ed lear	ning outcomes				
sult-ori	entate (type, i	d way and to reflect the renumber of weekly contact hours, l	esults critically. anguage — if other than Ger	rman)	ods in a problem-solving and re-	
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 is creditable for bonus)						
project	report	(approx. 15 pages) and p	oster presentation (a	pprox. 15 minutes),	weighted 1:1	
Allocation of places						
	-					
Additio	nal inf	ormation	•			
Workload						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Applied Physical Geography (2013)						



Module title					Abbreviation	
	Subsidiary subject-specific development for Students of Applied Physical Geo - o9-BGV-M1-131-m01 graphy 1					
Module coordinator				Module offered by		
holder	holder of the Chair of Physical Geograph		hy	Institute of Geograp	ohy 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	Please consult with examination commi		rice in advance. Recognition by	
Conten	ts					
courses	s from l		rning ecology, geobo	tany, biodiversity re	lied Physical Geography", e.g. search), from Chemistry (especi-	
Intende	ed learı	ning outcomes				
conten	ts and		necessary for interd		hy. They acquire knowledge of y are also able to communicate	
Course	Courses (type, number of weekly contact hours, language — if other than German)					
V (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	2)	
	Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for 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 up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) and/or written elaboration (approx. 10 to 30 pages) Language of assessment: German, English						
Allocat	Allocation of places					
Additio	Additional information					
Workload						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
	<u></u>					
Module	Module appears in					
Master	Master's degree (1 major) Applied Physical Geography (2013)					



Module title Abbreviation					Abbreviation
	Subsidiary subject-specific development for Students of Applied Physical Geo - o9-BGV-M2-131-m01 graphy 2				
Module coordinator				Module offered by	
holder	holder of the Chair of Physical Geograph		hy	Institute of Geograp	ohy 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	Please consult with course advisory service in advance. Recognition by examination committee.		rice in advance. Recognition by
Conten	ts				
course	s from l		rning ecology, geobo	tany, biodiversity re	lied Physical Geography", e.g. search), from Chemistry (especi-
Intend	ed learı	ning outcomes			
conten	ts and		necessary for interd		hy. They acquire knowledge of y are also able to communicate
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
V (no ir	nformat	ion on SWS (weekly cont	act 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 is creditable for 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 up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) and/or written elaboration (approx. 10 to 30 pages) Language of assessment: German, English					
Allocat	ion of p	olaces			
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module	e appea	rs in			
Master	Master's degree (1 major) Applied Physical Geography (2013)				



Module	Module title Abbreviation					
Subsidiary subject-specific development for Students of Applied Physical Geo- 09-BGV-M3-131-m01					09-BGV-M3-131-m01	
graphy	3					
Module coordinator				Module offered by		
holder of the Chair of Physical Geography			hy	Institute of Geograp	ohy and Geology	
ECTS	Metho	od of grading	Only after succ. compl. of module(s)			
5	nume	rical grade				
Duration Module level		Module level	Other prerequisites			
1 seme	ster	graduate	Please consult with course advisory service in advance. Recognition by examination committee.			
Conten	ts					
courses	s from I		rning ecology, geobo	tany, biodiversity re	lied Physical Geography", e.g. search), from Chemistry (especi-	
Intende	ed lear	ning outcomes				
conten	ts and		necessary for interd	, .	ohy. They acquire knowledge of ey are also able to communicate	
Course	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 is creditable for 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 up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes) and/or written elaboration (approx. 10 to 30 pages) Language of assessment: German, English						
Allocation of places						
Additio	nal inf	ormation				
Workload						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
Mastaris dagree (4 major) Applied Dhysical Coography (2042)						

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



Thesis

(30 ECTS credits)



Module title					Abbreviation
Master Thesis and Final Colloquium by Students of Geogra				phy	09-MAAK-131-m01
Module	coord	inator		Module offered by	
chairperson of examination committee Angewandte Physische Geographie (Applied Physical Geography)			• ,	Institute of Geography and Geology	
ECTS	Method of grading Only af		Only after succ. con	npl. of module(s)	
30	numerical grade				
Duration Module level		Other prerequisites			
1 semester graduate					

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 is creditable for 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 og-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 og-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

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

Teaching cycle

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

Master's with 1 major Applied Physical Geography	JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record Master (120
(2013)	ECTS) Angewandte Physische Geographie, Geosystemwandel und -schutz - 2013

und -schutz - 2013



Module appears in

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