

Module Catalogue for the Subject

Geographic Science Approaches to Environmental Challenges (GEOSPHERES)

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

Examination regulations version: 2025 Responsible: Faculty of Arts, Historical, Philological, Cultural and Geographical Studies Responsible: Institute of Geography and Geology JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record 88|m79|-|-|H|2025



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The subject is divided into

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Learning Outcomes

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German contents and learning outcome available but not translated yet.

Wissenschaftliche Befähigung

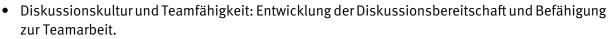
- Das Master#Studium der Angewandten Humangeographie vertieft die Lehr# und Forschungsinhalte der Physischen Geographie. Der Studiengang ist in einen Pflicht#, Wahlpflichtbereich untergliedert und bereitet auf eine qualifizierte Erwerbstätigkeit vor. Das Ziel der Ausbildung ist es, den Studierenden fundierte und detaillierte Kenntnisse aus den wichtigsten Teilgebieten der Humangeographie zu vermitteln und sie mit modernen Methoden des geographischen, sozial# und wirtschaftswissenschaftlichen Denkens und Arbeitens vertraut zu machen. Deshalb wird auf das Verständnis der fundamentalen geographischen Begriffe und Theorien sowie auf einige grundlegende Methodenkenntnisse und die Entwicklung typischer Denkstrukturen besonderer Wert gelegt. Zentrales Lernziel ist somit der Erwerb der Fähigkeit, räumliche Strukturen und Entwicklungsprozesse zielgerichtet zu analysieren, zu dokumentieren und zu bewerten. Auch die Fähigkeit zum selbständigen wissenschaftlichen Arbeiten soll massiv gefördert werden.
- Der anwendungsbezogene Masterstudiengang bietet Möglichkeiten der Vertiefung und Spezialisierung und bereitet auf eine hoch qualifizierte Berufstätigkeit im akademischen oder im angewandten Bereich vor.
- Vertiefung des im Rahmen des ersten berufsbefähigenden Studiums erworbenen geo# und raumwissenschaftliches Fachwissens und Erweiterung des methodischen und analytischen Ansatzes;
- Vertiefung der Kenntnisse über die Zusammenhänge innerhalb der eigenen Disziplin und mit benachbarten Disziplinen, Befähigung komplexe, insbesondere interdisziplinäre, Probleme und
 Aufgabenstellungen im Umweltbereich zu erkennen und zu analysieren, zu formulieren und –
 unter Zuhilfenahme von selbst recherchierter Fachliteratur zu lösen; Vertiefung und Erweiterung der Befähigung, über geographische, geo# und raumwissenschaftliche Inhalte und Probleme sowohl mit Fachkollegen und # kolleginnen als auch mit einer breiteren Öffentlichkeit zu
 kommunizieren; Vertiefung und Erweiterung der Befähigung, sowohl einzeln als auch als Mitglied internationaler Gruppen zu arbeiten und Projekte effektiv zu organisieren und durchzuführen sowie in eine entsprechende Führungsverantwortung hineinzuwachsen;
- Befähigung, zukünftige Probleme, Technologien und wissenschaftliche Entwicklungen in den Geo# und Raumwissenschaften zu erkennen und entsprechend in die Arbeit einzubeziehen; durch die Vertiefung wissenschaftlicher, technischer und sozialer Kompetenz (u.a. Abstraktionsvermögen, Team# und Kommunikationsfähigkeit) auf die Übernahme von Führungsverantwortung vorbereitet zu sein.

Befähigung zur Aufnahme einer Erwerbstätigkeit

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

Persönlichkeitsentwicklung

Master's with 1 major Geographic Science Approa-	JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Master (120 ECTS)	page 5 / 4
ches to Environmental Challenges (GEOSPHERES)	Geographic Science Approaches to Environmental Challenges (GEOSPHERES) - 2025	
(2025)		



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

Befähigung zum gesellschaftlichen Engagement

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



Abbreviations used

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

Term: **SS** = summer semester, **WS** = winter semester

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

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

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

Conventions

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

Notes

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

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

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

In accordance with

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

ASPO2015

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

??-???-2025 (2025-??)

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

(50 ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)



Scientific Discipline

(25 ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

Environmental challenges I					
	Module offered by				
	Institute of Geograp	bhy and Geology			
Only after succ. com	pl. of module(s)				
-					
Other prerequisites					
-					
nguage — if other than Ger	man)				
e — if other than German, e	xamination offered — if no	t every semester, information on whether			
5)					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
	suage — if other than Gern - if other than German, e	Institute of Geograp			

Module	e title				Abbreviation
Environmental challenges II 04-Geo-GS-RV2-252-mo1					
Module	e coord	inator		Module offered by	<u> </u>
				Institute of Geogra	ohy and Geology
ECTS	Meth	od of grading	Only after succ. con		, 0,
5		rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster				
Conten	ts	<u>.</u>			
Intende	ed lear	ning outcomes			
Course	S (type, r	number of weekly contact hours, I	anguage — if other than Ger	man)	
V (2)					
Module	e taugh	t in: English			
		sessment (type, scope, langua vle for bonus)	ge — if other than German, o	examination offered — if no	ot every semester, information on whether
		nation (approx. 45 minut ssessment: English	es)		
Allocat	ion of _l	places			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
Module appears in					
keinem	Studie	engang zugeordnet			

Module title Abbreviation Discussing current topics in environmental research 04-Geo-GS-RS-252-m01 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 5 Duration Module level Other prerequisites 1 semester Contents --Intended learning outcomes **Courses** (type, number of weekly contact hours, language — if other than German) S (2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) Presentation (approx. 20 minutes) with related term paper (approx. 15 pages) about a session as group work Language of assessment: English Allocation of places **Additional information** Workload 150 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) --Module appears in keinem Studiengang zugeordnet

Module Catalogue for the Subject Geographic Science Approaches to Environmental Challenges (GEOSPHERES)

Master's with 1 major, 120 ECTS credits Module title Abbreviation Applied project (with block course at the end of the semester) 04-Geo-GS-AP-252-mo1 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 10 Duration Module level Other prerequisites 1 semester Contents --Intended learning outcomes **Courses** (type, number of weekly contact hours, language — if other than German) R (8) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) project work (approx. 90 hours total) Language of assessment: English Allocation of places **Additional information** Workload 300 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) --Module appears in keinem Studiengang zugeordnet



Methology (15 ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

Module title				Abbreviation	
Applied statistics in geosciences				04-Geo-GS-AS-252-m01	
Module coordinator				Module offered by	
			_	Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learn	ning outcomes			
	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
Ü (2) Module	e taugh	t in: English			
Method	d of ass	s essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
		le for bonus)			
b) oral tes per	examin candid			on in groups of up to	o 3 candidates (approx. 15 minu-
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module					
keinem	Studie	engang zugeordnet			

Module title Abbreviation **Advanced GIS & geoinformatics** 04-Geo-GS-GIS-252-mo1 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 5 Duration Module level Other prerequisites 1 semester Contents --Intended learning outcomes **Courses** (type, number of weekly contact hours, language — if other than German) Ü(2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) project work (approx. 15 pages) Language of assessment: English Allocation of places **Additional information** Workload 150 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) --Module appears in keinem Studiengang zugeordnet

Module title Abbreviation Scientific writing and presenting 04-Geo-GS-SWP-252-mo1 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 5 Duration Module level Other prerequisites 1 semester Contents --Intended learning outcomes **Courses** (type, number of weekly contact hours, language — if other than German) Ü(2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) presentation (approx. 10 minutes) with related term paper (approx. 15 pages) Language of assessment: English **Allocation of places Additional information** Workload 150 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) --Module appears in keinem Studiengang zugeordnet



Work Placement (10 ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

Module title Abbreviation Work placement / Professional practical training for Students of GEOSPHERES 04-Geo-GS-WP-252-m01 Module coordinator Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) (not) successfully completed 10 Duration Module level Other prerequisites 1 semester Contents --Intended learning outcomes **Courses** (type, number of weekly contact hours, language — if other than German) P (o) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) report on work placement (approx. 10 pages) Language of assessment: English Allocation of places **Additional information** Additional information on module duration: approx. 8 weeks. Students must submit a letter issued by the institution at which they completed their placement. This letter must confirm the start and end dates as well as the contents of the placement. Workload 300 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in keinem Studiengang zugeordnet



Compulsory Electives

(40 ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)



Courses Specialisation in the Scientific Discipline

(40 ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)



Physical Geography

(ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

Module title				Abbreviation	
Earth surface processes and landforms in a changing world			in a changing world		04-Geo-GS-PG1-252-m01
Module	e coord	inator		Module offered by	
			_	Institute of Geograp	ohy and Geology
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed leari	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) Module	e taugh	t in: English			
Method	d of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
module is	creditab	le for bonus)			
b) writt Langua	en exa ge of a	n (approx. 30 minutes) w nination (approx. 45 min ssessment: English ffered: once a year, winte	utes)	er (approx. 20 pages)) or
Allocat		*			
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					
Additio	nal inf	ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
keinem	keinem Studiengang zugeordnet				

Human-environmental interactions 04-6eo-6S-PG2-252-mo1 Module cvertinator Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) 5 numerical grade Daration Module level Other prerequisites 1 semester Contents r Registry (type, number of weekly contact hours, language – if other than Germany S S (2) Module taught in: English Module taught in: English Module taught in: English Module taught in: English Module taught in: English Module taught in: English Module taught in: English Module taught in: English Apresentation (approx, 45 minutes) Jong lacs. <	Module title				Abbreviation	
	Human-environmental interactions				04-Geo-GS-PG2-252-m01	
ECTS Method of grading Only after succ. compl. of module(s) s numerical grade Duration Module level Other prerequisites 1 semester Contents Contests Contests Contests Intendeclear	Module	e coord	inator		Module offered by	
5 numerical grade Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language if other than German) S (2) S (2) Module taught in: English Method of assessment (type, scope, language if other than German, examination offered if not every semester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle <t< td=""><td></td><td></td><td></td><td>_</td><td>Institute of Geograp</td><td>bhy and Geology</td></t<>				_	Institute of Geograp	bhy and Geology
Duration Module level Other prerequisites 1 semester Contents Contents Intended learning outcomes Courses (type, number of weekly contact hours, language – if other than German) S S (2) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Balcostion Information	ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language – if other than German) S S (2) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 2 o places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 130 h Teaching cycle Referred to in LPO 1 (examination regulations for teaching-degree programmes) -	5	nume	rical grade			
Contents Contents Intended learning outcomes Courses (type, number of weekly contact hours, language – if other than German) S (2) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO 1 (examination regulations for teaching-degree programmes) Module appears in	Duratio	n	Module level	Other prerequisites		
Intended learning outcomes Intended learning outcomes Courses (type, number of weekly contact hours, language — if other than German) S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	1 seme	ster				
Courses (type, number of weekly contact hours, language — if other than German) S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every senester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Conten	ts				
Courses (type, number of weekly contact hours, language — if other than German) S (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every senester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in						
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S (2) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination for teaching-degree programmes) Module appears in						
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Climatology (ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

Module Catalogue for the Subject Geographic Science Approaches to Environmental Challenges (GEOSPHERES)

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Contents Contents Contents Intended learning outcomes Courses (type, number of weekly contact hours, language — if other than German) V (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Duratio	n	Module level	Other prerequisites		
Intended learning outcomes Intended learning outcomes Courses (type, number of weekly contact hours, language — if other than German) V (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	1 seme	ster				
Courses (type, number of weekly contact hours, language — if other than German) V (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Atmong applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Conten	ts				
Courses (type, number of weekly contact hours, language — if other than German) V (2) Module taught in: English Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Atmong applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in						
V (2) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Intende	ed learr	ning outcomes			
V (2) Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in						
Module taught in: English Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
module is creditable for bonus) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	. ,	e taugh	t in: English			
Language of assessment: English Assessment offered: once a year, winter semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in				ge — if other than German, e	examination offered — if no	t every semester, information on whether
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Langua	ge of a	ssessment: English			
Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by http://www.allocated.com/places/se-allocated/by at http://www.allocated/by.org/set/allocated/by.org	Allocat	ion of p	olaces			
 Workload 150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by					
150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Additio	nal inf	ormation			
150 h Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in						
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Workload					
Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	150 h					
 Module appears in	Teaching cycle					
 Module appears in						
	Referred to in LPO I (examination regulations for teaching-degree programmes)					
••						
keinem Studiengang zugeordnet	Module appears in					
	keinem	Studie	engang zugeordnet			

Module title					Abbreviation
Weathe	Weather phenomena in the mid-latitudes				04-Geo-GS-Clim2-252-m01
Module	e coord	inator		Module offered by	
				Institute of Geograp	bhy and Geology
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster				
Conten	ts				
Intende	ed learr	ning outcomes			
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
S (2)					
Module	e taugh	t in: English			
			ge — if other than German, e	examination offered — if no	t every semester, information on whether
		le for bonus)			
		nation (approx. 45 minute ssessment: English	25)		
Assess	ment o	ffered: once a year, winte	er semester		
credita	ble for	bonus			
Allocat	ion of p	olaces			
20 plac					
					pplicants with the same number ained and places re-allocated by
		come available.	ocaleu by lol. A walli		anieu anu places le-allocaleu by
		ormation			
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
keinem	Studie	engang zugeordnet			

5

Master's with 1 major, 120 ECTS credits Module title Abbreviation Meteorological and climate hazards and their management 04-Geo-GS-Clim3-252-m01 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language - if other than German) S (2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) term paper (approx. 20 pages) Language of assessment: English Assessment offered: once a year, summer semester **Allocation of places** 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h **Teaching cycle**

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

Module appears in

keinem Studiengang zugeordnet

Master's with 1 major, 120 ECTS credits Module title Abbreviation Measuring and forecasting of weather in the mid-latitudes 04-Geo-GS-Clim4-252-m01 Module coordinator Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 5 Duration Module level Other prerequisites 1 semester Contents --Intended learning outcomes Courses (type, number of weekly contact hours, language - if other than German) Ü(2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) project work (approx. 20 pages) Language of assessment: English Assessment offered: once a year, summer semester creditable for bonus **Allocation of places** 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. **Additional information** Succesfully completed module o4-Geo-GS-Clim2 is recommended Workload 150 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in keinem Studiengang zugeordnet



Soil Geography (ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

Module	e title		Abbreviation						
Soils in	a char	iging environment			04-Geo-GS-SG1-252-m01				
Module	e coordi	nator		Module offered by					
				Institute of Geography and Geology					
ECTS	Method of grading Only af		Only after succ. com	nly after succ. compl. of module(s)					
5	nume	rical grade							
Duration Module level		Other prerequisites							
1 semester									
Contents									
Intended learning outcomes									
Courses (type, number of weekly contact hours, language — if other than German)									
V (2) Module taught in: English									
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)									
written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester									
Allocation of places									
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.									
Additional information									
Worklo	ad								
150 h									
Teaching cycle									
Referred to in LPO I (examination regulations for teaching-degree programmes)									
Module appears in									
keinem	keinem Studiengang zugeordnet								

Module	e title		Abbreviation						
Soil dy	namics	and natural hazards		04-Geo-GS-SG2-252-m01					
Module	e coord	inator		Module offered by					
			_	Institute of Geography and Geology					
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)					
5	nume	rical grade							
Duration Module level		Other prerequisites							
1 semester									
Contents									
Intended learning outcomes									
Courses (type, number of weekly contact hours, language — if other than German)									
S (2) Module taught in: English									
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)									
a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester									
Allocation of places									
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.									
Additional information									
Worklo	ad								
150 h									
Teaching cycle									
Referred to in LPO I (examination regulations for teaching-degree programmes)									
Module appears in									
keinem Studiengang zugeordnet									

Module Catalogue for the Subject Geographic Science Approaches to Environmental Challenges (GEOSPHERES)

Master's with 1 major, 120 ECTS credits Module title Abbreviation Analytical methods in soil and environmental studies 04-Geo-GS-SG3-252-m01 Module coordinator Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 5 Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes **Courses** (type, number of weekly contact hours, language — if other than German) Ü(2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) project work (e.g. documentation and analysis of laboratory and field data, approx. 20 pages) Language of assessment: English Assessment offered: once a year, summer semester Allocation of places 16 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. Additional information Workload 150 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in keinem Studiengang zugeordnet

Master's with 1 major, 120 ECTS credits Module title Abbreviation Challenges and solutions in soil and landscape dynamics 04-Geo-GS-SG4-252-m01 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 5 Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language - if other than German) S (2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) a) presentation (approx. 30 minutes) with related term paper (approx. 20 pages) or b) written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, summer semester Allocation of places 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. **Additional information** Workload 150 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in keinem Studiengang zugeordnet



Module Catalogue for the Subject Geographic Science Approaches to Environmental Challenges (GEOSPHERES) Master's with 1 major, 120 ECTS credits

Georesources

(ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Master (120 ECTS) Geographic Science Approaches to Environmental Challenges (GEOSPHERES) - 2025

Module title					Abbreviation	
Geology of mineral deposits 04-Geo-GS-GR1-252-r				04-Geo-GS-GR1-252-m01		
Module coordinator				Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	numer	ical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster					
Content	ts					
Intende	d learr	ning outcomes				
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2) Module	taught	tin: English				
			ge — if other than German. 6	examination offered — if no	t every semester, information on whether	
		le for bonus)			, , , , , , , , , , , , , , , , , , , ,	
b) oral e Langua	a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English					
		ffered: once a year, winte	er semester			
Allocation of places						
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
Additional information						
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						

Module title				Abbreviation			
Climate change through Earth's history					04-Geo-GS-GR2-252-m01		
Module coordinator				Module offered by			
				Institute of Geograp	bhy and Geology		
ECTS	Metho	od of grading	Only after succ. com	npl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster						
Conten	ts						
Intende	ed learr	ning outcomes					
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
V (2) Module	taugh	t in: English					
	Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
b) oral (Langua	a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, winter semester						
Allocat		•					
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.							
Additional information							
Workload							
150 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
	Module appears in						
keinem	keinem Studiengang zugeordnet						

Master's with 1 major, 120 ECTS credits Module title Abbreviation Applied environmental geochemistry and mineralogy 04-Geo-GS-GR3-252-m01 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade Duration Module level Other prerequisites 1 semester Contents Intended learning outcomes Courses (type, number of weekly contact hours, language - if other than German) S (2) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, summer semester **Allocation of places** 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. **Additional information** Workload 150 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in keinem Studiengang zugeordnet

Module title					Abbreviation	
GIS applications in geology					04-Geo-GS-GR4-252-m01	
Module coordinator				Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster					
Content	ts					
Intende	d learr	ning outcomes				
Courses	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
Ü (2) Module	taught	t in: English				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)						
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, summer semester						
Allocation of places						
20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
Addition	nal info	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						



Courses Extension in the Scientific Discipline

(ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025) JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Master (120 ECTS) Geographic Science Approaches to Environmental Challenges (GEOSPHERES) - 2025

Module title					Abbreviation		
Subsidiary subject-specific development for Students of GEOSPHERES 1 04-Geo-GS-FE1-252-mo1							
Module coordinator				Module offered by			
			_	Institute of Geography and Geology			
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	l. of module(s)		
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 semes	ster						
Conten	ts						
Intende	ed learr	ning outcomes					
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)			
	-	t in: English or German (n hold module in German)	nodule will be held ir	e English; in additior	n, the lecturer may, where possi-		
		essment (type, scope, langua) le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether		
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)							
Allocation of places							
Additio	nal info	ormation					
Workload							
150 h							
Teaching cycle							
Referred to in LPO I (examination regulations for teaching-degree programmes)							
Module appears in							
keinem Studiengang zugeordnet							

Module title					Abbreviation	
Subsidiary subject-specific development for Students of GEOSPHERES 2 04-0					04-Geo-GS-FE2-252-m01	
Module coordinator				Module offered by		
				Institute of Geograp	bhy and Geology	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	numei	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster					
Conten	ts					
Intende	ed learr	ning outcomes				
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2) Module taught in: English or German (module will be held in English; in addition, the lecturer may, where possible, decide to hold module in German) Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether						
		le for bonus)	-			
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English or German (assessment will be held in English; in addition, the examiner may, where possible, decide to hold assessment in German)						
Allocation of places						
Additio	nal info	ormation				
Workload						
150 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
-						
Module appears in						
keinem	keinem Studiengang zugeordnet					



Module Catalogue for the Subject Geographic Science Approaches to Environmental Challenges (GEOSPHERES) Master's with 1 major, 120 ECTS credits

Thesis (30 ECTS credits)

Master's with 1 major Geographic Science Approaches to Environmental Challenges (GEOSPHERES) (2025)

JMU Würzburg • generated 14-Dez-2024 • exam. reg. data record Master (120 ECTS) Geographic Science Approaches to Environmental Challenges (GEOSPHERES) - 2025

Module title	Abbreviation				
Progress report on Master thesis 04-Geo-GS-MA1-252-mo1					
Module coordinator		Module offered by			
		Institute of Geograp	ohy and Geology		
ECTS Method of grading	Only after succ. con	npl. of module(s)			
2 (not) successfully completed	1				
Duration Module level	Other prerequisites	Other prerequisites			
1 semester					
Contents					
Intended learning outcomes					
Courses (type, number of weekly contact hour	s, language — if other than Ger	rman)			
K (o) Module taught in: English					
Method of assessment (type, scope, lan; module is creditable for bonus)	guage — if other than German, o	examination offered — if no	t every semester, information on whether		
work-in-progress report (approx. 20 Language of assessment: English	minutes) with subseque	ent discussion (appr	ox. 25 minutes)		
Allocation of places					
Additional information					
Workload					
60 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
keinem Studiengang zugeordnet					

Module title	Abbreviation					
Master thesis GEOSPHERES				04-Geo-GS-MA2-252-mo1		
Module coordinator			Module offered by			
			Institute of Geograp	bhy and Geology		
ECTS Method of g	rading	Only after succ. com	pl. of module(s)			
25 numerical gr	rade					
Duration Modu	ıle level	Other prerequisites	Other prerequisites			
1 semester						
Contents						
Intended learning ou	utcomes					
Courses (type, number o	of weekly contact hours, l	anguage — if other than Ger	man)			
No courses assigned Module taught in: En						
Method of assessme module is creditable for bo		ge — if other than German, e	examination offered — if no	t every semester, information on whether		
Master's thesis (app Language of assessr						
Allocation of places						
Additional informati	on					
Time to complete: 6	months.					
Workload						
750 h						
Teaching cycle						
Referred to in LPO I (examination regulations for teaching-degree programmes)						
Module appears in						
keinem Studiengang zugeordnet						

Module title Abbreviation Final colloquium of Master thesis GEOSPHERES 04-Geo-GS-MA3-252-m01 **Module coordinator** Module offered by Institute of Geography and Geology ECTS Method of grading Only after succ. compl. of module(s) numerical grade 3 Duration Module level Other prerequisites 1 semester Contents --Intended learning outcomes **Courses** (type, number of weekly contact hours, language — if other than German) K (o) Module taught in: English Method of assessment (type, scope, language - if other than German, examination offered - if not every semester, information on whether module is creditable for bonus) talk (approx. 30 minutes) with subsequent discussion (approx. 15 minutes) Language of assessment: English Allocation of places **Additional information** Workload 90 h **Teaching cycle** Referred to in LPO I (examination regulations for teaching-degree programmes) --Module appears in keinem Studiengang zugeordnet