



# Subdivided Module Catalogue for the Subject

Keine PO-STG-Zuordnung vorhanden

Responsible: JMU Würzburg

## Learning Outcomes

German contents and learning outcome available but not translated yet.

### Wissenschaftliche Befähigung

- Das Masterstudium 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 raumwissenschaftlichen 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

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

**Befähigung zum gesellschaftlichen Engagement**

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

## Abbreviations used

Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

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

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

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

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

## Conventions

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

## Notes

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

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

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

## In accordance with

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

**ASPO2015**

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

**??-??-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.

## The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
<b>Compulsory Courses (50 ECTS credits)</b>				
<b>Scientific Discipline (25 ECTS credits)</b>				
o4-Geo-GS-RV1-252-m01	Environmental challenges I	5	NUM	28
o4-Geo-GS-RV2-252-m01	Environmental challenges II	5	NUM	29
o4-Geo-GS-RS-252-m01	Discussing current topics in environmental research	5	NUM	27
o4-Geo-GS-AP-252-m01	Applied project (with block course at the end of the semester)	10	NUM	7
<b>Methology (15 ECTS credits)</b>				
o4-Geo-GS-AS-252-m01	Applied statistics in geosciences	5	NUM	8
o4-Geo-GS-GIS-252-m01	Advanced GIS & geoinformatics	5	NUM	15
o4-Geo-GS-SWP-252-m01	Scientific writing and presenting	5	NUM	34
<b>Work Placement (10 ECTS credits)</b>				
o4-Geo-GS-WP-252-m01	Work placement / Professional practical training for Students of GEOSPHERES	10	B/NB	35
<b>Compulsory Electives (40 ECTS credits)</b>				
<b>Courses Specialisation in the Scientific Discipline (40 ECTS credits)</b>				
<b>Physical Geography</b>				
o4-Geo-GS-PG1-252-m01	Earth surface processes and landforms in a changing world	5	NUM	23
o4-Geo-GS-PG2-252-m01	Human-environmental interactions	5	NUM	24
o4-Geo-GS-PG3-252-m01	Natural risks and hazards	5	NUM	25
o4-Geo-GS-PG4-252-m01	Landscape dynamics in the Anthropocene	5	NUM	26
<b>Climatology</b>				
o4-Geo-GS-Clim1-252-m01	Man-made climate change, implications and mitigation	5	NUM	9
o4-Geo-GS-Clim2-252-m01	Weather phenomena in the mid-latitudes	5	NUM	10
o4-Geo-GS-Clim3-252-m01	Meteorological and climate hazards and their management	5	NUM	11
o4-Geo-GS-Clim4-252-m01	Measuring and forecasting of weather in the mid-latitudes	5	NUM	12
<b>Soil Geography</b>				
o4-Geo-GS-SG1-252-m01	Soils in a changing environment	5	NUM	30
o4-Geo-GS-SG2-252-m01	Soil dynamics and natural hazards	5	NUM	31
o4-Geo-GS-SG3-252-m01	Analytical methods in soil and environmental studies	5	NUM	32
Master's with 1 major (2025)		JMU Würzburg • generated 05-Nov-2024 • exam. reg. data record Master (120 ECTS) Geographic Science Approaches to Environmental Challenges (GEOSPHERES) - 2025		page 5 / 35

o4-Geo-GS-SG4-252-m01	Challenges and solutions in soil and landscape dynamics	5	NUM	33
<b>Georesources</b>				
o4-Geo-GS-GR1-252-m01	Geology of mineral deposits	5	NUM	16
o4-Geo-GS-GR2-252-m01	Climate change through Earth's history	5	NUM	17
o4-Geo-GS-GR3-252-m01	Applied environmental geochemistry and mineralogy	5	NUM	18
o4-Geo-GS-GR4-252-m01	GIS applications in geology	5	NUM	19
<b>Courses Extension in the Scientific Discipline</b>				
o4-Geo-GS-FE1-252-m01	Subsidiary subject-specific development for Students of GEOSPHERES 1	5	NUM	13
o4-Geo-GS-FE2-252-m01	Subsidiary subject-specific development for Students of GEOSPHERES 2	5	NUM	14
<b>Thesis (30 ECTS credits)</b>				
o4-Geo-GS-MA1-252-m01	Progress report on Master thesis	2	B/NB	20
o4-Geo-GS-MA2-252-m01	Master thesis GEOSPHERES	25	NUM	21
o4-Geo-GS-MA3-252-m01	Final colloquium of Master thesis GEOSPHERES	3	NUM	22

<b>Module title</b>		<b>Abbreviation</b>
Applied project (with block course at the end of the semester)		04-Geo-GS-AP-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
10	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
R (8) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
project work (approx. 90 hours total) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Applied statistics in geosciences		04-Geo-GS-AS-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
--		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written exercises (approx. 15 pages) or b) oral examination of one candidate each or oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
keinem Studiengang zugeordnet		



<b>Module title</b>		<b>Abbreviation</b>
Man-made climate change, implications and mitigation		04-Geo-GS-Clim1-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Weather phenomena in the mid-latitudes		04-Geo-GS-Clim2-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester creditable for bonus		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Meteorological and climate hazards and their management		04-Geo-GS-Clim3-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
term paper (approx. 20 pages) Language of assessment: English Assessment offered: once a year, summer semester		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Measuring and forecasting of weather in the mid-latitudes		o4-Geo-GS-Clim4-252-mo1
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
project work (approx. 20 pages) Language of assessment: English Assessment offered: once a year, summer semester creditable for bonus		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
Successfully completed module o4-Geo-GS-Clim2 is recommended		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Subsidiary subject-specific development for Students of GEOSPHERES 1		04-Geo-GS-FE1-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
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)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) 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)		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Subsidiary subject-specific development for Students of GEOSPHERES 2		04-Geo-GS FE2-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
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)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) 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)		
<b>Allocation of places</b>		
--		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Advanced GIS & geoinformatics		04-Geo-GS-GIS-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
project work (approx. 15 pages) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Geology of mineral deposits		04-Geo-GS-GR1-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
--		
<b>Intended learning outcomes</b>		
--		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, winter semester		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
--		
<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
--		
<b>Module appears in</b>		
keinem Studiengang zugeordnet		



<b>Module title</b>		<b>Abbreviation</b>
Climate change through Earth's history		04-Geo-GS-GR2-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
--		
<b>Intended learning outcomes</b>		
--		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, winter semester		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Applied environmental geochemistry and mineralogy		04-Geo-GS-GR3-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, summer semester		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
GIS applications in geology		o4-Geo-GS-GR4-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 30 minutes) Language of assessment: English Assessment offered: once a year, summer semester		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Progress report on Master thesis		04-Geo-GS-MA1-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
2	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
K (o) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
work-in-progress report (approx. 20 minutes) with subsequent discussion (approx. 25 minutes) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
60 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Master thesis GEOSPHERES		04-Geo-GS-MA2-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
25	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
No courses assigned to module Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
Master's thesis (approx. 80 pages) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
Time to complete: 6 months.		
<b>Workload</b>		
750 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

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

<b>Module title</b>		<b>Abbreviation</b>
Earth surface processes and landforms in a changing world		04-Geo-GS-PG1-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (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		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Human-environmental interactions		04-Geo-GS-PG2-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (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		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		



<b>Module title</b>		<b>Abbreviation</b>
Natural risks and hazards		04-Geo-GS-PG3-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (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		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Landscape dynamics in the Anthropocene		o4-Geo-GS-PG4-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (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		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

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

<b>Module title</b>		<b>Abbreviation</b>
Environmental challenges I		04-Geo-GS-RV1-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 45 minutes) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Environmental challenges II		04-Geo-GS-RV2-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 45 minutes) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Soils in a changing environment		04-Geo-GS-SG1-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
V (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
written examination (approx. 45 minutes) Language of assessment: English Assessment offered: once a year, winter semester		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Soil dynamics and natural hazards		04-Geo-GS-SG2-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
--		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (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		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Analytical methods in soil and environmental studies		04-Geo-GS-SG3-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
project 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		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		



<b>Module title</b>		<b>Abbreviation</b>
Challenges and solutions in soil and landscape dynamics		o4-Geo-GS-SG4-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
a) presentation (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		
<b>Allocation of places</b>		
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.		
<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
Scientific writing and presenting		04-Geo-GS-SWP-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
--		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
Ü (2) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
presentation (approx. 10 minutes) with related term paper (approx. 15 pages) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</b>		
150 h		
<b>Teaching cycle</b>		
--		
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		

<b>Module title</b>		<b>Abbreviation</b>
<b>Work placement / Professional practical training for Students of GEOSPHERES</b>		04-Geo-GS-WP-252-m01
<b>Module coordinator</b>		<b>Module offered by</b>
--		Institute of Geography and Geology
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
10	(not) successfully completed	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	--	--
<b>Contents</b>		
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<b>Intended learning outcomes</b>		
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<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
P (o) Module taught in: English		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)		
report on work placement (approx. 10 pages) Language of assessment: English		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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.		
<b>Workload</b>		
300 h		
<b>Teaching cycle</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
keinem Studiengang zugeordnet		