

# BIOGEOSCIENCE OF THE ANTHROPOCENE M.SC. – STUDY PLAN

1 <sup>ST</sup> SEMESTER WINTER SEMESTER		2 <sup>ND</sup> SEMESTER SUMMER SEMESTER		3 <sup>RD</sup> SEMESTER WINTER SEMESTER		4 <sup>TH</sup> SEMESTER SUMMER SEMESTER
Interdisciplinary Work in the Biogeoscience of the Anthropocene (MBGSA101) 5 ECTS		Biogeoscientific Field Exercise (MBGSA201) 5 ECTS		Scientific Project (MBGSA301) 15 ECTS		Master's Thesis (MBGSA401) 30 ECTS
Scientific Work & Scientific Conduct (MBGSA102) 5 ECTS		Envirometrics and Applied Geostatistics: Quantifying Environmental Change (MBGSA202) 5 ECTS		Specialisation Module (MBGSA302) 10 ECTS		
Geomicrobiology and Global Change (MBGSA103) 5 ECTS	Element-Microbe Dynamics in the Soil-Plant-System (MBGSA104) 5 ECTS	Radio- and Chemotoxic Elements in the Environment (MBGSA203) 5 ECTS	Metaomics in Action: From Data to Discovery (MBGSA204) 5 ECTS	Module of other study programmes, language or wildcard min. 5 ECTS	Module from 1st semester 5 ECTS	
Fluid Flow and Reactive Transport I (MBGSA105) 5 ECTS	Conservation Palaeobiology (MBGSA106) 5 ECTS	Global Biogeochemical Cycles and Climate Change (MBGSA205) 5 ECTS	Weathering, Pedogenesis and Ecosystem Change in the Anthropocene (MBGSA209) 5 ECTS	Cosmochemistry and Planetology (MGE0304) 6 ECTS		
Terrestrial Microbiology (MBGSA107) 5 ECTS	Biomineralogy (MBGSA108) 5 ECTS	Fluid Flow and Reactive Transport II (MBGSA206) 5 ECTS	Geobiology of the Wadden Sea (MBGSA208) 5 ECTS			
The Anthropocene – Historical Perspectives and Earth System Dynamics (MBGSA109) 5 ECTS		Thermodynamics and Kinetics of Natural Systems (MBGSA207) 5 ECTS	Ecohydrology and Subterranean Ecosystems (MGE0112) 6 ECTS			
		Computational Geophysics (MGE0202) 6 ECTS	Module of other study programmes, language or wildcard min. 5 ECTS			
		Environmental Analytics (MCEU2.3) 5 ECTS				
30 ECTS		30 ECTS		30 ECTS		

compulsory module (total of 45 ECTS)  
 elective module (total of 45 ECTS)

# BIOGEOSCIENCE OF THE ANTHROPOCENE M.SC. – MODULES AND EXAMS

Module code	module title	winter/summer + duration	Recomm. semester	types of examination	ECTS	Required ECTS
MBGSA101	Interdisciplinary Work in the Biogeoscience of the Anthropocene	winter (1 semester)	1	collection of questions (written and/or oral) (100 %)	5	5
MBGSA102	Scientific Work & Scientific Conduct	winter (1 semester)	1	written exam (100%)	5	5
MBGSA201	Biogeoscientific Field Exercise	summer (1 semester)	2	oral presentation in seminar (60 %); oral presentation during field exercise, group effort (40%)	5	5
MBGSA202	Envirometrics and Applied Geostatistics	summer (1 semester)	2	written exam (100 %)	5	5
MBGSA301	Scientific Project	winter (1 semester)	3	Written report or poster presentation (100%)	15	15
MBGSA302	Specialisation Module	winter/summer(1 sem.)	3	term paper, poster report + resentation or written report with oral presentation (100 %)	10	10
MBGSA103	Geomicrobiology and Global Change	winter (1 semester)	1 or 3	written exam (50 %), oral presentation (50 %)	5	45
MBGSA104	Element-Microbe Dynamics in the Soil-Plant-System	winter (1 semester)	1 or 3	oral presentation (100 %)	5	
MBGSA105	Fluid-Flow and Reactive Transport I	winter (1 semester)	1 or 3	written exam (100%)	5	
MBGSA106	Conservation Palaeobiology	winter (1 semester)	1 or 3	oral exam (100 %)	5	
MBGSA107	Terrestrial Microbiology	winter (1 semester)	1 or 3	protocol (100 %)	5	
MBGSA108	Biominalogy	winter (1 semester)	1 or 3	written exam (75 %), term paper (25 %)	5	
MBGSA109	The Anthropocene – Historical Perspectives and Earth System Dynamics	winter (1 semester)	1 or 3	paper (40%), group project (30%), presentation (20%), participation in discussions and activities (10%)	5	
MGE0304	Cosmochemistry and Planetology	winter (1 semester)	3	semester-related work (100%)	6	
MBGSA203	Radio- and Chemotoxic Elements in the Environment	summer (1 semester)	2	written exam (66 %), report field topic (34 %)	5	
MBGSA204	Metaomics in Action: From Data to Discovery	summer (1 semester)	2	term paper (100 %)	5	
MBGSA205	Global Biogeochemical Cycles and Climate Change	summer (1 semester)	2	written exam, e. g. paper or other (100 %)	5	
MBGSA206	Fluid Flow and Reactive Transport II	summer (1 semester)	2	written exam (100 %)	5	
MBGSA207	Thermodynamics and Kinetics of Natural Systems	summer (1 semester)	2	written exam (100 %)	5	
MBGSA208	Geobiology of the Wadden Sea	summer (1 semester)	2	oral presentation and field work report (100 %)	5	
MBGSA209	Weathering, Pedogenesis and Ecosystem Change in the Anthropocene	summer (1 semester)	2	written exam (80 %), written report field exercise (20%)	5	
MGE0112	Ecohydrology and Subterranean Ecosystems	summer (1 semester)	2	Semester-related work (100%)	6	
MGE0202	Computational Geophysics	summer (1 semester)	2	Semester-related work (100%)	6	
MCEU2.3	Environmental Analytics	summer (1 semester)	2	Laboratory course (50%), written or oral examination lecture and laboratory course (50%)	5	
individual module opportunity	complete module or language courses (except mothertongue language) from the university offering without consulting the subject advisor (up to 5 ECTS creditable); Alternatively: Compilation of individual courses in a wildcard module (needs consultation with academic advisor)	winter/summer	1; 2; 3	For wildcard module see module description, for other complete modules (refer to Friedolin; ↗ <a href="#">application for the exam via the Office for Student Affairs and Examinations</a> )	5	
MBGSA401	Master's Thesis	every semester (6 month)	4	Written Master's theses (75%), Scientific oral presentation with defence during the last two months of thesis preparation (25 %)	30	30

Binding information on the types of examinations etc. can be found in the module catalog.

compulsory module (total of 45 ECTS) + Master's Thesis 30 ECTS)

elective module (total of 45 ECTS); there is no problem to finish your study programme with more than 120 ECTS