

M.Sc. Applied Geosciences (MAG) - from WiSe 2021/22

Core Subjects 1	Hydrogeologie / Hydrogeology	Ingenieurgeologie / Engineering Geology	Angewandte Sedimentologie / Applied Sedimentology	Professionalisierung und Zusatzkompetenzen Professionalization & Complementary Competences	
Language	Deutsch/English	Deutsch/English	Deutsch/English	Englisch/German	Englisch/German

Modules Sem. 1	Grundwasserbeschaffenheit		Ingenieurgeologie - fortgeschrittene Methoden		Angewandte Sedimentologie Grundlagen		Fortgeschrittene geol. Kartierung / Advanced Geological Mapping		Fortgeschr. Digitale Kompetenzen / Advanced Digital Competences	
Title, Form, CP Lect. 1	Grundwasserbeschaffenheit	L+E 3	Ingenieurgeologie	L+E 3	Fluss-und Küstenmanagement	L+E 5	Advanced Geological Mapping Course (2 weeks)	F 6	2 out of 6 Block Courses: DEM + FEM, Numerical Methods, Time Series Analysis, GMT, Seismic Data Processing, Seismic Interpretation with Commercial Software Packages	BC 6
Title, Form, CP Lect. 2	Tracer/Isotopenhydrogeologie	L+E 2	Ingenieurgeologie - Laborpraktikum	LP 2	Fluss-und Küstenmanagement Exkursion	F 1				
Title, Form, CP Lect. 3	Angewandte Hydrogeologie	L+E 1	Ingenieurgeologie - Seminar	S 1						

Modules Sem. 1	Grundwasseranalytik + hydraulische Modellierung		Fundamente & Forschungssem. Ing.geo./Geotechn. in Wiss.+ Praxis		Angewandte Sedimentologie Projekte		Gelände- und Laborpraxis / Field and Lab Practice		Zusatzqualifikationen / Complementary Competences	
Title, Form, CP Lect. 1	Hydraulische Modellierung	L+E 3	Fundamente	L+E 3	Angewandte Sedimentologie Projekte	PE 6	Field- or Lab-Training Courses in the total Amount of 6 CP	F / L 6	Complementary Courses, e.g. Languages, Economy or Law in the total Amount of 6 CP	GS 6
Title, Form, CP Lect. 2	Chemische Hydrogeologie	PE 3	Research Seminar Geotechnics in Science and Practice	L+E+S 3						
Title, Form, CP Lect. 3										
	5 SWS		5 SWS		4 SWS		6 SWS		6 SWS	

Core Subjects 2	Applied Petrology	Applied Geophysics	Renewable Energy Resources	Geohazards	Glaciology
Language	Englisch/German	Englisch/German	Englisch/German	Englisch/German	Englisch/German

Modules Sem. 1	Crustal Dynamics and Reservoir Formation		Applied Geophysics - Methods		Renewable Energy in the Earth System		Hazard - Risk Assessment		Glaciology I	
Title, Form, CP Lect. 1	Crustal Dynamics and Reservoir Formation	L+E 6	Applied Geophysics - Methods	L+E 6	Renewable Energy in the Earth System	L+E 5	Catastrophic Hazard Events	L+E 6	Introduction to Glaciology	L+E 4
Title, Form, CP Lect. 2					Renewable Energy Exploitation	S 1			Field Methods in Glaciology	L+E 2
Title, Form, CP Lect. 3										
	4 SWS		4 SWS		4 SWS		4 SWS		5 SWS	

Modules Sem. 2	Petrologic Methods in Ore Geology		Applied Geophysics - Projects		Offshore Wind Energy		Environmental Hazards		Glaciology II	
Title, Form, CP Lect. 1	Petrological Methods in Ore Geology	L+E 6	Applied Geophysics: Projects	PE 6	Soil Investigation for Wind Farms	L+E 4	Physical Coastal Hazards	L+E 3	Theoretical Glaciology	L 4
Title, Form, CP Lect. 2					Project Offshore Wind Farms - Subsurface Char. + Energy Exploit.	PE 2	Coastal Erosion	L+E 1.5	Arctic and Antarctic Glaciology	S 2
Title, Form, CP Lect. 3							Ocean Chemistry and Pollutants	L+E 1.5		
	4 SWS		4 SWS		4 SWS		4 SWS		5 SWS	

Project + Sci. Train.	Geowissenschaftliches Projekt / Geoscientific Project		Forschungsseminar / Research Seminar	
Language	Englisch/German		Englisch/German	

Modules Sem. 3	Geowissenschaftliches Projekt / Geoscientific Project		Forschungsseminar / Research Seminar	
Title, Form, CP Lect. 1	Geowissenschaftliches Projekt / Geoscientific Project	PE 15	Forschungsseminar / Research Seminar	S 15
	4 SWS		4 SWS	

Master Thesis	Masterarbeit / Master Thesis	
Language	Englisch/German	

Modules Sem. 4	Module Master Thesis	
Title, Form, CP Lect. 1	Master Thesis (22 weeks) and Oral Master Defense (ca. 1 hour)	MT 30