

M.Sc. Marine Geosciences (MMG)

1st Year	Marine Technology		Marine Resources		Climate Change		Professionalization and Complementary Competences			
	Englisch		Englisch		Englisch		Deutsch/Englisch			
	8 SWS		9 SWS		10 SWS		0 SWS		0 SWS	
Module 1. Sem.	Geophysical Surveying and Observation Technology		Continental Margin Resources		Climate Change I: Fundamentals		Field and Lab Practice I		Advanced Digital Competences	
Title / Form Course 1	Geophys. Survey Strategies and Planning	L+E 3	Hydrocarbon Formation and Petroleum Exploration	L+E 2	Earth System Modeling	L+E 4	Different Field Trips or Lab Courses	GÜ 6	Different Computer Application Courses as one-week blocked Courses	BK 6
Title / Form Course 2	Observation Technologies	L+E 3	Applied Petroleum Geology	L+E 4	The Role of High Latitudes Oceans in Climate Change	L+E 2				
	4 SWS		4 SWS		5 SWS					
Module 2. Sem.	Drilling, In-situ Measurements & Robotic Systems		Deep Sea Resources		Climate Change II: Models and Data		Field and Lab Practice II		Complementary Skills	
Title / Form Course 1	Drilling/Logging	L+E 2	Gas Hydrates, Formation, Detection, Relevance	L+E 2	Abrupt, Past and Future Climate Changes	L+E 6	Different Field Trips or Lab Courses	GÜ 6	Free choice of courses from the supplementary courses offered by the University of Bremen	6
Title / Form Course 2	In-situ Technologies	S 2	Marine Resources in Space and Time	L+E *S 4						
Title / Form Course 3	Marine Robotics	L+E 2								
	4 SWS		5 SWS		5 SWS					

1st Year Cont.	Environmental Archives		Ocean Crust Evolution		Sedimentary Structures		Marine Geobiology		Biogeochemistry	
Language	Englisch		Englisch		Englisch		Englisch		Englisch	
	8 SWS		8 SWS		8 SWS		8 SWS		11 SWS	
Module 1. Sem.	Environmental Archives Methods		Magmatic and Hydrothermal Processes		Sedimentary Structures of Shelves and Passive Marg.		Evolution of Marine Ecosystems		Biogeochemical Processes: Concepts	
Title / Form Course 1	Environmental Magnetism	L+E 1.5	Magmatic and Hydrothermal Processes	L+E 6	Seismic and Acoustic Imaging of Sedimentary Structures	L+E 1	Evolution of Marine Ecosystems	L+E+S 6	Inorganic Geochemistry	L+E 2.5
Title / Form Course 2	Marine Ecosystems	L+E 1.5			Sedimentary Structures and Processes at Passive Margins	L+E 2.5			Marine Microbes	L+E 1
Title / Form Course 3	Stable Isotopes + Trace Elements	L+E 1.5			Sedimentology and Ecology of Shelves	L+E 2.5				
Title / Form Course 4	Terrigenous Signals	L+E 1.5							Molecular Geochemistry	L+E 2.5
	4 SWS		4 SWS		4 SWS		4 SWS		5 SWS	
Module 2. Sem.	Environmental Archives Projects		Geophysics of Plates, Mantle, and Margins		Sedimentary Structures of Active Margins		Marine Molecular Geobiology		Biogeochemical Processes: Projects	
Title / Form Course 1	Environmental Archives Project	PE 6	Geophysics of Plates, Mantle, and Margins	L+E 6	Sedimentary Structures: Active Margins	L+E 6	Molecular Geobiology	L 4	Biogeochemistry Projects	PE 6
Title / Form Course 2							Current Topics in Geobiology	S 2		
	4 SWS		4 SWS		4 SWS		4 SWS		6 SWS	

Project Studies	Geowissenschaftliches Projekt / Geoscientific Project		Forschungsseminar / Research Seminar	
	Deutsch/English		Englisch	
Language				
Module 3. Sem.	Geowissenschaftliches Projekt / Geoscientific Project (15 CP)		Forschungsseminar / Research Seminar (15 CP)	
	Geowissenschaftliches Projekt / Geoscientific Project (15 CP)	PE 15	Forschungsseminar / Research Seminar (15 CP)	S 15
	Written Report and Colloquium Presentation (each 50 %)			
Title / Form Course 1				
Title / Form Course 2				

Master Thesis Language	Masterarbeit / Master Thesis Englisch	
Module 4. Sem. Title / Form Course 1 Title / Form Course 2	Masterarbeit und Masterprüfung / Master Thesis and Master Exam (30 CP)	
	Wissenschaftliche Masterarbeit (24 Wochen) und mündliche Masterprüfung (ca. 1 Stunde) / Scientific Master Thesis (24 weeks) and Oral Master Exam (ca. 1 hour)	MT 30
	Evaluation Report (2 Examiners, 75%) and Colloquium (2 Examiners, 25 %)	