

M.Sc. Marine Geosciences - Study plan

1st year (60 CP)	Winter semester	Core Subject A (9 CP) selected module of C1 - C6	Core Subject B (9 CP) selected module of C1 - C6	Core Subject C (9 CP) selected module of C1 - C6	Master Conference (3 CP)
	C1 Climate Change I: Fundamentals C2 Marine Environmental Archives: Methods C3 Biogeochemical Processes: Concepts C4 Marine Resources and Geotechnology I C5 Sedimentary Structures and Processes: Shelves and Passive Margins C6 Formation and Evolution of the Ocean Crust				Current geoscientific topics
1st year (60 CP)	Summer semester	Core Subject A (6 CP) consecutive module of C7 - C12	Core Subject B (6 CP) consecutive module of C7 - C12	Core Subject C (6 CP) consecutive module of C7 - C12	Marine Field and Lab Practice (12 CP)
	C7 Climate Change II: Models and Data C8 Marine Environmental Archives: Project C9 Biogeochemical Processes: Projects C10 Marine Resources and Geotechnology II C11 Sedimentary Structures and Processes: Active Margins C12 Convergent Margin and Intra-Plate Processes				Marine, coastal and marine-terrestrial field and/or laboratory exercises
2nd year (60 CP)	Winter sem.	Geoscientific Project (15 CP)		Geoscientific Research Seminar (15 CP)	
	Initiation and management of a self-designed geoscientific project		Development of a research concept for own master thesis (state of the art, scientific goals, methods and schedule)		
2nd year (60 CP)	Summer sem.	Master Thesis (30 CP)			
	Geoscientific research project with thesis and colloquium				

M.Sc. Marine Geosciences - Study plan / compulsory modules

1st year	Winter semester	C1 Climate Change I: Fundamentals (9CP)	C2 Marine Environmental Archives: Methods (9 CP)	C3 Biogeochemical Processes: Concepts (9 CP)
		Earth System Modelling (V+Ü;3SWS/5CP)	Marine Ecosystems as Environmental Indicators (V+Ü;1SWS/2CP)	Biogeochemistry I (V+Ü;5SWS/9CP)
		The Role of High Latitudes Oceans in Climate Change (V+Ü;2SWS/4CP)	Stable Isotopes + Trace Elements in Paleoenv. Research (V+Ü;2SWS/3CP)	
		Environmental Magnetism (V+Ü+S;1SWS/2CP)		
		Terrigenous Signals (V+S;1SWS/2CP)		
Summer semester	C7 Climate Change II: Models and Data (6 CP)	C8 Marine Environmental Archives: Project (6 CP)	C9 Biogeochemical Processes: Projects (6 CP)	
	Abrupt climate changes (V+Ü+S;2SWS/3CP)	Stratigraphic methods (V+Ü;1SWS/1CP)	Biogeochemistry II (PÜ;3SWS/6CP)	
	Modelling past and future climate changes (V+Ü;2SWS/3CP)	Marine environmental archives project (PÜ;4SWS/5CP)		
1st year, cont.	Winter semester	C4 Marine Resources and Geotechnology I (9 CP)	C5 Sedimentary Structures and Processes: Shelves and Passive Margins (9 CP)	C6 Formation and Evolution of the Ocean Crust (9 CP)
		Continental Margin Resources (V+Ü;2,5SWS/4CP)	Sedim. Structures + Processes: Passive Continental Margins (V+Ü;2SWS/3,5CP)	Geophysics of Mid-Ocean Ridges and Abyssal Plains (V;2SWS/4CP)
		Gas Hydrates: Formation, Detection, Relevance (V;2,5SWS/5CP)	Sedimentology and Ecology of Shelves (V+Ü+S;2SWS/3,5CP)	Magmatic and Hydrothermal Processes at Mid-Ocean Ridges (V+Ü;2SWS/3CP)
		Seismic + Acoustic Imaging of Sedimentary Structures (V+Ü;1SWS/2CP)	Microscopy of Rocks from the Ocean Basins (Ü;1SWS/1CP)	
Summer semester	C10 Marine Resources and Geotechnology II (6 CP)	C11 Sedimentary Structures and Processes: Active Margins (6 CP)	C12 Convergent Margin and Intra-Plate Processes (6 CP)	
	Advanced Methods in Marine Geophysical Exploration (V+Ü;2,5SWS/3CP)	Modelling of Sedimentation Processes and Tectonics (V+Ü;2SWS/2CP)	Geochem. Tracers in Petrogenetic and Geodynamic Studies (V+Ü;2SWS/2CP)	
	Marine Geotechnology (V+Ü+S;2,5SWS/3CP)	Sedim. Structures + Processes: Active Continental Margins (V+Ü;3SWS/4CP)	Mass and Energy Transfers Coupled to Plate Tectonics (S;1SWS/1CP)	
		Geophysics of Active and Passive Continental Margins (V;2SWS/3CP)		

Courses as of study year 2012. Single courses (but not the modules) may change from year to year within the framework of continuous improvement processes.

Note: