

Study plan, start of studies in the winter semester

Module ID	Module	Semester			
		1	2	3	4
I Mandatory Modules (18 LP)					
GEW-MM01	Topics in Earth System Science (6 LP)	6			
GEW-MM02	Project Practical or Research Internship (12 LP)			12	
II. Core Modules (24 LP)					
II.1 Major Geology					
GEW-MC01	Earth System Records (6 LP)	<6>			
GEW-MC02	Tectonics and Geodynamics (6 LP)	<6>			
GEW-MC03	Data Analysis and Statistics (6 LP)	<6>			
GEW-MC04	Field Practical (6 LP)		<6>		
II.2 Major Geophysics					
GEW-MC05	Theoretical Geophysics (6 LP)	<6>			
GEW-MC06	Geophysical Inversion and Data Analysis (12 LP)	<6> V+Ü I	<6> V+Ü II		
GEW-MC07	Geophysical Laboratory (6 LP)	<6>			
II.3 Major Mineralogy and Petrology					
GEW-MC10	Advanced Mineralogy and Petrology (6 LP)	<6>			
GEW-MC11	Applications of Mineralogy and Petrology		<6>		
GEW-MC12	Methods in Mineralogy and Petrology (6 LP)	<6>			
GEW-MC13	Advanced Methods in Mineralogy and Petrology		<6>		
III. Specialization Modules (24 LP)					
III.1 Major Geology					
GEW-MF010	Earth Surface Processes (6 LP)*	<6>		<6>	
GEW-MF011	Earth Systems through Time (6LP)***	<6>		<6>	
GEW-MF012	Modern Carbonates (6LP)***				
GEW-MF013	Rates and Dates of Geological Processes (6LP)*	<6>		<6>	
GEW-MF014	Geo-Information Systems (6LP)*	<6>		<6>	
GEW-MF015	Sedimentary Systems Modelling (6LP)	<6>		<6>	
GEW-RCM01	Remote Sensing of the Environment (6LP)*	<6>		<6>	
GEW-MF017	Active Tectonics (6LP)		<6>		
GEW-MF018	Basin Analysis and Natural Resources (6LP)		<6>		
GEW-MF019	Earth Observation and Modelling (6LP)**	<6>	<6>	<6>	
GEW-MF020	Field Exercise (6LP)**	<6>	<6>	<6>	
III.2 Major Geophysics					
GEW-MF110	Fundamentals of Digital Seismology (6 LP)**	<6>		<6>	

GEW-MF111	Array Seismology (6LP)		<6>		
GEW-MF112	Seismic Hazard Analysis (6LP)*	<6>		<6>	
GEW-MF113	Seismological Data Science with Application to Volcano Systems (6 LP)		<6>		
GEW-MF114	Seismic Methods (6 LP)*	<6>		<6>	
GEW-MF115	Electrical and Electromagnetic Methods (6LP)	<6>		<6>	
GEW-MF116	Potential Field Methods (6LP)		<6>		
GEW-MF117	Field Course Applied Geophysics (6LP)		<6>		
III.3 Major Mineralogy and Petrology					
GEW-MF210	Specialized Petrology (6 LP)*	<6>		<6>	
GEW-MF211	Age Determination (6LP)		<6>		
GEW-MF212	Physicochemical Mineralogy-Petrology (6 LP)		<6>		
GEW-MF213	Hands-On in Mineralogy and Petrology (6LP)**	<6>	<6>	<6>	
GEW-MF214	Current Topics in Mineralogy and Petrology (6LP)*	<6>		<6>	
GEW-MF215	Special Topics in Mineralogy and Petrology (6 LP)		<6>		
IV. Elective Modules (24 LP) Choose from this section or from II. and III.					
GEW-ME01	Modelling and Exploring the Earth System (6 LP)		<6>		
GEW-ME02	Geosciences Across Scales (6 LP)*	<6>		<6>	
GEW-ME03	Past and Present of the Earth System (6 LP)*	<6>		<6>	
GEW-ME04	Modern Trends in Geosciences (6 LP)		<6>		
GEW-ME05	Geoscientific Data Science (6 LP)*	<6>		<6>	
GEW-ME06	Special Remote Methods in Geosciences (6 LP)		<6>		
GEW-ME07	Special Topics in Geosciences (6 LP)*	<6>		<6>	
GEW-ME08	Monitoring Techniques and Data Analysis in Geosciences (6 LP)*	<6>		<6>	
Master's Thesis and Defense (30 LP)					
Master's Thesis					30
Summe der pro Semester zu erwerbenden LP		30	30	30	30
* Module can alternatively be taken in the 1st or 3rd semester. ** The module can alternatively be taken in the 1st, 2nd or 3rd semester. *** Modules are offered alternately.					

The descriptions provided here are based in part on information from the subject-specific study and examination regulations for the Master's program in Geosciences at the University of Potsdam dated February 12, 2025 (AmBek No. 18/25, p. 728).