

GEW-ME03 Past and Present of the Earth System		Number of credit points (LP): 6		
Module type (mandatory or elective module)	Elective module			
Contents and qualification objectives of the module	<p>Contents</p> <p>The module provides participants with knowledge in a broad field of geosystem analysis, both for past conditions and the modern Earth system. Selectable topics include concepts and applications of geophysical, geological, and mineralogical methods, as well as various approaches to geosystems investigations. Modern geoscience data analysis and/or laboratory methods and field exercises are combined with practical exercises and theoretical concepts, e.g., in bio-geosystems and sedimentation, the Earth's magnetic field, and climate-related depositional systems.</p> <p>Qualification goals</p> <p>Students</p> <ul style="list-style-type: none"> - will be able to evaluate a broad range of geoscience topics in relation to processes of the present as well as the past using relevant and modern research approaches - are able to generate the necessary data and forecasts based on a process-oriented understanding of the various components and interactions of the earth system - understand processes on different length and time scales and can thus make statements about past or future changes in the Earth system - are enabled to work in teams on practical exercises 			
Module examination (number, form, scope)	An examination of the following forms: Term paper, 20 pages Written exam, 90 minutes Oral exam, 30 minutes			
Self-learning time (in time hours)	120			
Events (teaching forms)	Contact time (in semester hours)	Secondary examination (number, form, scope)		Partial module examination accompanying the course (number, form, scope)
		For the completion of the module	For admission to the module examination	
Lecture and exercise (lecture and exercise)	2V+2T	-	-	-
Frequency	Winter semester			
Prerequisite for participation in the module	None			
Teaching unit(s)	Geosciences			