GEW-MC01 Sedimentary Earth System Record			Number of credit points (LP): 6		
Module type	Elective mode	ıle			
(mandatory or					
elective module)					
Contents and	Contents				
qualification	Students acquire in-depth knowledge of the methods used to study sedimentary sequences and to				
objectives of the	record sedimentary processes and their variations in the geologic past in response to changes in				
module	climate, sea level, paleoceanography, the biosphere, and tectonics.				
	By analyzing selected intervals in Earth history, this module examines the feedbacks between				
	unificient components in the Earth system. The stratigraphic structuring of stratigraphic sequences and the creation of sedimentation models lead to a fundamental understanding of the Earth system				
	and the creation of scutterination models read to a fundamental understanding of the Earth system and are furthermore of interest for the applied field (exploration energy final disposal). With				
	exercises and a field trip, students acquire practical skills in applying the principles of basin analysis				
	and the processes that control sedimentation history.				
	Oualification goals				
Students					
	 have advanced knowledge of basin analysis, processes of sedimentation and their variations in the geological past, and feedbacks in the Earth system 				
	- are able to expand a subject-specific system in depth				
	 acquire the 	ability to recognize	ry geoscientific rela	tionships in the Earth system	
	acquire the ability to critically analyze, interpret, and present data				
Module examination	An examination of the following forms:				
(number, form,	Oral exam, 30 minutes				
scope)	Written exam, 90 minutes				
Self-learning time	CØ				
(in time nours)					
Events (teaching forms)		Contact time (in	Secondary examination		Partial module examination accompanying the course
		semester hours)	(number, form, scope)		
		,	For the	For admission to	(number, form, scope)
			completion of	the module	
			the module	examination	
Lecture and exercise (lecture and		2V+2T	-	Exercises (80%)	-
exercise)					
Field trip (exercise)		7 days	Report (10-12	-	-
			pages)		
Frequency			Winter semester		
Prerequisite for participation in the module			None		
Teaching unit(s)			Geosciences		