

Module title		Abbreviation
Solid Earth I		09-BFA1-072-m01
Module coordinator		Module offered by
holder of the Chair of Geodynamics and Geomaterials Research		Institute of Geography and Geology
ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	two module components of 09-PG1
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>The module component "Stratigraphy and Earth's history" provides an overview of the Earth's 4,6 billion years of development and the resulting sediments, the environmental conditions at that time, development of life and possibilities of age determination. Subsequently, either the module component "Petrographic Microscopy" can be chosen or a module component that deals with "Geochemistry" and "Hydrologic balance". The first one covers the principles of microscopy of rock and mineral thin sections with the polarising microscope. The second one deals with geochemical systems of the Earth's upper crust and which role water plays in a geochemical and hydrogeological view: water as a chemical transport medium, water cycle, water storage and danger of water contamination.</p>		
Intended learning outcomes		
<p>Students possess the required basics in the mentioned special fields shown in 10. Especially, the module component rock microscopy is an essential basis for in-depth petrological and crystalline-geological studies, while the module component geochemistry and hydrologic balance also makes up a basis for advanced studies in the area of environmental sciences and hydrology.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
<p>This module has 3 components; information on courses listed separately for each component.</p> <ul style="list-style-type: none"> <li>• 09-BFA1-1-072: V + Ü (no information on language and number of weekly contact hours available)</li> <li>• 09-BFA1-2-072: V + Ü (no information on language and number of weekly contact hours available)</li> <li>• 09-BFA1-3-072: V + Ü (no information on language and number of weekly contact hours available)</li> </ul>		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>This module has the following 3 assessment components. To pass the module as a whole students must pass the third assessment component and one of the remaining two.</p> <p><b>Assessment component to module component 09-BFA1-1-072: Stratigraphie und Erdgeschichte</b></p> <ul style="list-style-type: none"> <li>• 5 ECTS credits, method of grading: numerical grade</li> <li>• written or oral examination of on candidate each or presentation (30 minutes each)</li> </ul> <p><b>Assessment component to module component 09-BFA1-2-072: Gesteinsmikroskopie</b></p> <ul style="list-style-type: none"> <li>• 5 ECTS credits, method of grading: numerical grade</li> <li>• written or oral examination of on candidate each (30 minutes each)</li> </ul> <p><b>Assessment component to module component 09-BFA1-3-072: Geochemie und Wasserhaushalt</b></p> <ul style="list-style-type: none"> <li>• 5 ECTS credits, method of grading: numerical grade</li> <li>• written or oral examination of on candidate each or presentation (30 minutes each)</li> </ul>		
Allocation of places		
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Additional information		
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Workload		
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<b>Teaching cycle</b>
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)
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<b>Module appears in</b>
Bachelor's degree (1 major) Geography (2007)