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.

**Contents**

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.

**Courses**

This module has 3 components; information on courses listed separately for each component.
- 09-BFA1-1-072: V + Ü (no information on language and number of weekly contact hours available)
- 09-BFA1-2-072: V + Ü (no information on language and number of weekly contact hours available)
- 09-BFA1-3-072: V + Ü (no information on language and number of weekly contact hours available)

**Method of assessment**

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.

- **Assessment component to module component 09-BFA1-1-072: Stratigraphie und Erdgeschichte**
  - 5 ECTS credits, method of grading: numerical grade
  - written or oral examination of on candidate each or presentation (30 minutes each)
- **Assessment component to module component 09-BFA1-2-072: Gesteinsmikroskopie**
  - 5 ECTS credits, method of grading: numerical grade
  - written or oral examination of on candidate each (30 minutes each)
- **Assessment component to module component 09-BFA1-3-072: Geochemie und Wasserhaushalt**
  - 5 ECTS credits, method of grading: numerical grade
  - written or oral examination of on candidate each or presentation (30 minutes each)
Bachelor's degree (1 major) Geography (2007)