






Module Overview B.Sc. Applied Geosciences (12 semesters)

Degree programme guidelines as per 04.12.2013, version 01.10.2017

The degree programme consists of 180 Credit Points (CP) in total:

| | | |
|---|--------|---|
| Fundamental Mathematical-scientific Subjects: | 34 CP |  |
| Geoscientific Core Subjects: | 105 CP |  |
| Geoscientific Elective Subject Area: | 12 CP |  |
| Interdisciplinary & Key Qualification Area: | 17 CP |  |
| Bachelor's Thesis: | 12 CP |  |



TECHNISCHE
UNIVERSITÄT
DARMSTADT

**Language of Tuition:
GERMAN**
Certificates required

This leads to the following possible semester course schedule:

| 1. Semester | 2. Semester | 3. Semester | 4. Semester | 5. Semester | 6. Semester |
|--|---|-------------------------|--------------------------|---------------------------|--|
| General Chemistry (8 CP) | Inorganic Chemistry Internship (3 CP) | Mathematics I (7 CP) | Mathematics II (4 CP) | Physics I / II (10 CP) | |
| Geology I (5 CP) | Geology II (5 CP) | Mineralogy I (5 CP) | Mineralogy II (5 CP) | Geology III (5 CP) | Geochemistry (4 CP) |
| Stratigraphy and History of the Earth (5 CP) | Geological Maps and Cross Sections (5 CP) | | Petrology I (5 CP) | Petrology II (5 CP) | Geoinformation Systems I (4 CP) |
| | | | | | Non-University Internship (3 CP)**** |
| Ø 15 CP | Ø 15 CP | Ø 15 CP | Ø 15 CP | Ø 15 CP | Ø 15 CP |

| 7. Semester | 8. Semester | 9. Semester | 10. Semester | 11. Semester | 12. Semester | |
|---|-----------------------------|--|-----------------------------|-----------------------------------|------------------------------|--|
| Physics Laboratory Course for Geoscientists (2 CP) | Field Courses I (11 CP)* | Hydrogeology I (6 CP) | Field Courses II (8 CP)* | Geothermal Geology I (6 CP) | Scientific Methods (5 CP) | |
| Geology IV (5 CP) | | Engineering Geology I (6 CP) | | Bachelor's Thesis (12 CP) | | |
| Thin Section Microscopy (6 CP) | | Interdisciplinary Courses (6 CP)*** | | | | |
| Atmosphere I (3 CP) | | Geoscientific Elective Subject Area (at least 12 CP)*** | | | | |
| Non-University Internship (3 CP)**** | | | | | | |
| Ø 15 CP | Ø 15 CP | Ø 15 CP | Ø 15 CP | Ø 15 CP | Ø 15 CP | |

* consists of main field exercise HVDC I (6 days) and mapping course (10 days)

** consists of mapping course II (10 days)

*** choose between Geophysics; Field Exercises III; Atmosphere II; Polarization Microscopy III; Analytical Methods in Geosciences; Tectonophysics.

**** duration: six weeks non-university