Open and cooperative atmosphere

Large number of international students and faculty

Excellent lecturer-student ratio

Affordable cost of living

REASONS TO CHOOSE TU FREIBERG

Walkable, urban campus

Close cooperation with external research organizations

Unique features like the Research and Teaching Mine Reiche Zeche

Varied and exciting curriculum

ENROL NOW

Register online via our portal.
The deadline for enrolment for the summer term is 15 March, and for the winter term it is 15 September of the current year.

tu-freiberg.de/en/study

WE ARE ONLINE

- bergakademie
- tu_bergakademie_freiberg
- TUBergakademie
- tubaf_geo

SACHSEN

Diese Maßnahme wird mitfinanziert durch Steuermittel auf der Grundlage des vom Sächsischen Landtag beschlossenen Haushaltes.

ADMISIONS OFFICE

TU Bergakademie Freiberg
Admissions Office
Prüferstraße 2
09599 Freiberg
03731 39-3912

admission@tu-freiberg.de

PROFESSIONAL ADVICE

Faculty of Geosciences, Geoengineering and Mining
Prof. Dr. Traugott Scheytt
Gustav-Zeuner-Str. 12
09599 Freiberg
03731 39-2775
traugott.scheytt@geo.tu-freiberg.de

As of June 2026

TU BERGAKADEMIE FREIBERG

TUBAF
The University of Resources.
Since 1765.

MASTER
APPLIED GEOSCIENCE



Geosciences & Geotechnical Engineering

FACULTY
OF GEOSCIENCES, GEOENGINEERING AND MINING

LAY(ING) THE GROUNDWORK FOR YOUR FUTURE

MASTER

4 Semester
Standard Period of Study

Summer or Winter Term
Start of Studies

Master of Science (M.Sc.)
Degree

YOUR PROFILE

- Enjoyment of interdisciplinary projects
- A good knowledge-base of physics and chemistry
- Completed six-semester degree (e.g. Bachelors degree) in the field of geosciences
- English language skills: either TOEFL 90 points or IELTS score of 6.5 (students with a uni-assist accredited educational certificate are exempt from this requirement)
- Graduate Record Exam (GRE): 305 points (may be submitted after the application, but before matriculation)
- Able to explain your interest in the programme in a one-page letter of motivation (DIN A 4)

Infrastructural development depends on a solid understanding of the local environment. Before the first brick is laid, important questions about the condition of soils, rocks and groundwater need to be answered. This programme will give you the knowledge-base to sample, analyse and ultimately assess these conditions, in-situ as well as in the lab.

Students will be familiarized with the theory and praxis of a variety of sampling techniques, as well as analysis and simulation methods and programmes. Courses will take place in the lab, the lecture hall and our very own Research and Teaching Mine, the former silver mine "Reiche Zeche". Students are able to flexibly choose these courses in accordance with their area of interest, culminating in a degree spanning a broad range of topics or one of several specializations.

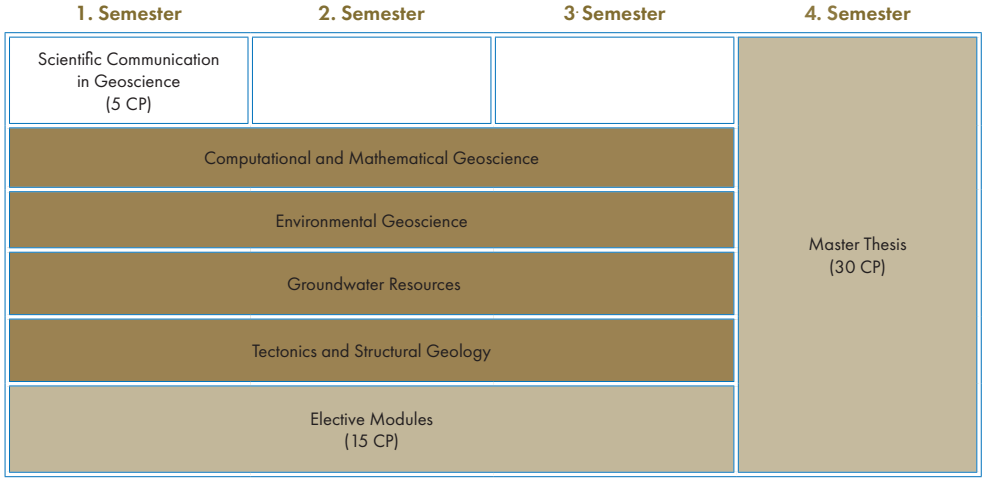
STUDY CONCEPT

The international Master's degree programme in Applied Geoscience (MGEX) provides students with a solid foundation in various disciplines of geology, environmental science and geophysics. We are looking for talented and motivated students who are committed to their graduate studies. Our goal is to train students for careers in industry, academia and government by employing innovative teaching and mentoring and providing opportunities to participate in cutting-edge research. Students have access to a variety of practical methods from field, laboratory and numerical approaches. Teaching takes the form of seminar work, independent research and integrated courses. Students can choose from the following specialisations:

- Computational and Mathematical Geoscience
- Environmental Geoscience
- Groundwater Resources
- Tectonics and Structural Geology

MGEX is attractive for students with a strong interest in research. The degree programme is geared towards a specific specialisation. The curriculum will be adjusted to the individual preferences and strengths of the student. Experimental laboratory and field studies are essential components of the second semester, while the third semester offers advanced courses. The student completes a comprehensive research project and writes a thesis summarizing this study. Students defend their Master's thesis at the end of their studies.

MASTER'S DEGREE PROGRAMME STRUCTURE



*Students must select modules totalling 70 credit points.
They have the choice between two study pathways:

1. A broad-based geoscience programme, in which students are free to choose from the module portfolio of all specialisations.
2. A programme in which students select a specialisation. A minimum of 30 credit points must be selected for a specialisation.

FAQs about the degree programme: