For Internationals

STUDY IN FREIBERG

Study Programmes, Language Courses, Application, Services
<table>
<thead>
<tr>
<th>Programme name in English</th>
<th>Programme name in German</th>
<th>Ba.</th>
<th>Ma.</th>
<th>Dipl.</th>
<th>Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>**Mathematics, Computer Science &amp; Natural Sciences</td>
<td>Mathematik, Informatik &amp; Naturwissenschaften</td>
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<tr>
<td>Applied Computer Science</td>
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<td>Internet of Energy</td>
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<td>Robotics</td>
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<td>Sustainable and Innovative Natural Resource Management (SINReM)</td>
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**Earth Sciences | Geowissenschaften**

<table>
<thead>
<tr>
<th>Programme name in English</th>
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<th>Ba.</th>
<th>Ma.</th>
<th>Dipl.</th>
<th>Start</th>
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<tbody>
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<td>Geotechnik und Bergbau</td>
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**Engineering Sciences | Ingenieurwissenschaften**

<table>
<thead>
<tr>
<th>Programme name in English</th>
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<th>Ba.</th>
<th>Ma.</th>
<th>Dipl.</th>
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<tr>
<td>Additive Manufacturing</td>
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<tr>
<td>Ceramic, Glass and Building Materials Technology</td>
<td>Keramik, Glas- und Baustofftechnik</td>
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<td>Computational Materials Science (CMS)</td>
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<td>Programme name in English</td>
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<td>Ma.</td>
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<td>Materials and Components for Vehicles</td>
<td>Fahrzeugbau: Werkstoffe und Komponenten</td>
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<td>Verfahrenstechnik</td>
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</table>

Technology and Application of Inorganic Engineering Materials (TAIEM) 4 ✓ W

* Ma. Computational Science and Engineering starts at TU Dresden, further information: tu-dresden.de
** Ba. Environmental Engineering starts in winter semester, Ma. starts in W and S; *** Dipl. Mechanical Engineering starts in winter semester, Ba. and Ma. start in W and S

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**Economics and interdisciplinary study programmes | Wirtschaftswissenschaften und interdisziplinäre Studiengänge**

<table>
<thead>
<tr>
<th>Programme name in English</th>
<th>Programme name in German</th>
<th>Ba.</th>
<th>Ma.</th>
<th>Dipl.</th>
<th>Start</th>
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<tbody>
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<td>Business Administration</td>
<td>Betriebswirtschaftslehre</td>
<td>6</td>
<td>4</td>
<td>✓</td>
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<td>Betriebswirtschaftslehre für die Ressourcenwirtschaft</td>
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<td>Business and Law</td>
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<td>✓</td>
<td>W,S</td>
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<td>Energy and Resource Management</td>
<td>Energie- und Ressourcenwirtschaft</td>
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<tr>
<td>Industrial Archaeology</td>
<td>Industriearchäologie</td>
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<td>Industrial Engineering and Management</td>
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<tr>
<td>Industrial Heritage</td>
<td>Industriekultur</td>
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<tr>
<td>International Business in Developing and Emerging Markets (IBDEM)</td>
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<td>4</td>
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<tr>
<td>International Management of Resources &amp; Environment (IMRE)</td>
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<tr>
<td>Technology Law</td>
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**Postgraduate study programmes | Aufbaustudiengänge**

<table>
<thead>
<tr>
<th>Programme name in English</th>
<th>Programme name in German</th>
<th>Ba.</th>
<th>Ma.</th>
<th>Dipl.</th>
<th>Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration for Engineers, Mathematicians and Scientists</td>
<td>Wirtschaftswissenschaften für Ingenieure, Mathematiker und Naturwissenschaftler</td>
<td>4</td>
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<td>W,S</td>
</tr>
<tr>
<td>Environmental Process Engineering</td>
<td>Umweltverfahrenstechnik</td>
<td>4</td>
<td></td>
<td>✓</td>
<td>W,S</td>
</tr>
</tbody>
</table>

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**Ba.** Bachelor degree programme (the number indicates study period in semesters)

**Ma.** Master degree programme (the number indicates study period in semesters)

**Dipl.** Diplom degree programme (the number indicates study period in semesters)

**Language of instruction is German** W Winter semester (1 October – 31 March)

**Language of instruction is English** S Summer semester (1 April – 30 September)

More information: tu-freiberg.de/en/international/english-master-courses
Geoscience

Goals: Gain thorough knowledge in one of these two geo-scientific disciplines:
1. Environmental Geoscience (interactions in the atmosphere, including climate and chemistry of the atmosphere), 2. Tectonophysics of Orogeny (work with methods of structural geology, geo-thermo chronology, geomorphology, remote sensing and petrology).

Degree: Master of Science (M.Sc.)

Specifics: Evaluate problems related to geoscience, environmental impact and risk assessment studies.

Start: Winter semester (1 October), starting in summer semester (1 April) is possible, but may lead to an extension of studies

Duration: 4 semesters

Application deadlines: Winter semester: 15 April
                      Summer semester: 15 October

Advanced Mineral Resource Development (AMRD)

Goals: To gain competence in developing sustainable, environmentally friendly methods in mining and mine remediation from an economic point of view. The Master programme combines natural, engineering, and economic sciences and encourages the acquisition of intercultural competence.

Degree: Master of Science (M.Sc.)

Specifics: Study in three different countries. Besides Austria and Germany, choose between Ukraine, Mongolia, China, Iran, Russia, Portugal and Spain.

Tuition fee: yes

Start: In winter semester in Leoben/Austria

Duration: 4 semesters

Application deadline: 31 January

Groundwater Management

Goals: Gain knowledge of hydrosphere, water chemistry, modeling and groundwater rehabilitation. Combine it with management techniques and business administration skills. Apply field and laboratory methods, numerical modeling of flow, transport and chemical reactions in aquatic systems. Learn how to develop methods for groundwater protection.

Degree: Master of Science (M.Sc.)

Specifics: Higher education in environmental law and general management of geo-resources

Tuition fee: None

Start: Winter semester (1 October)

Duration: 4 semesters

Application deadline: 15 April
Geomatics for Mineral Resource Management

Goals: Geomatics is an interdisciplinary field of research that combines aspects of surveying and sensor technology with data processing, geoinformatics and geomodelling. The main focus of Geomatics lies on the regulation and control of the interplay between resource extraction and its environmental impact.

Degree: Master of Science (M.Sc.)

Specifics: Sensing technologies for mine data gathering, spatial (big) data management and visualization, spatial (big) data analysis and modelling

Tuition fee: none

Prerequisite: German language proficiency B1

Start: Winter semester (1 October)

Duration: 4 semesters

Application deadline: 15 April

Sustainable Mining and Remediation Management (MORE)

Goals: Gain knowledge and skills for self-reliant scientific work in the fields of environmentally friendly mining, mining remediation and vitalisation of industries.

Degree: Master of Science (M.Sc.)

Specifics: Based on the worldwide unique German know-how on mining remediation, especially for uranium, lignite and ore mining.

Tuition fee: None

Start: Winter semester (1 October), starting in summer semester (1 April) is possible, but may lead to an extension of studies

Duration: 3 semesters

Application deadlines: Winter semester: 15 April Summer semester: 15 October

Advanced Materials Analysis (AMA)

Goals: Materials analysis plays a key role not only in research and development but also in their production control. Learn techniques for the analysis of materials like advanced steels, materials for electronics, shape memory alloys and energy materials.

Degree: Master of Science (M.Sc.)

Specifics: The strongly methodological character of the programme will open the door to a quite versatile range of industrial fields, from metallurgy to semiconductor industry, in academic research and in research centres.

Tuition fee: None

Start: Winter semester (1 October)

Duration: 4 semesters

Application deadline: 15 April
Computational Materials Science (CMS)

Goals: Be able to simulate material behavior in several computational methods, build the links between Mechanical Engineering, Materials Sciences and Solid State Physics. Master predictive simulation tools to understand and to design the structure and properties of materials at all length scales.

Degree: Master of Science (M.Sc.)

Specifics: Cutting-edge research applications, interaction with industrial partners during seminars.

Tuition fee: None

Start: Winter semester (1 October)

Duration: 4 semesters

Prerequisite: German language proficiency level A1

Application deadline: 15 April

Mechanical and Process Engineering (MPE)

Goal: This degree programme leads to advanced knowledge and skills, methodical and technical expertise in the field of Mechanical and Process Engineering. It combines knowledge from both mechanical and process specifics – machinery and plants with methods of process engineering.

Degree: Master of Science (M.Sc.)

Specifics: Familiarization with modern design methods and at least one numerical tool. Working on projects in small, intercultural teams.

Tuition fee: None

Start: Winter semester (1 October)

Duration: 4 semesters

Application deadlines: 15 April

Metallic Materials Technology (MMT)

Goals: Gain deeper knowledge in metal production especially in steel making, secondary metallurgy, continuous casting and foundry technology.

Degree: Master of Science (M.Sc.)

Specifics: Graduates can work in the following areas: Iron-and steelmaking industry, foundry industry, metal forming industry, engineering industry, refractory industry, metal processing industry, process development, technical sales and distribution, research institutions.

Tuition fee: None

Start: Summer semester (1 April), starting in winter semester (1 October) is possible, but may lead to an extension of studies

Duration: 3 semesters

Application deadlines: Summer semester: 15 October
Winter semester: 15 April
Technology and Application of Inorganic Engineering Materials (TAIEM)

Goals: Develop the knowledge on key materials such as steels and ceramics, their design, properties, applications and production technologies. Become a specialist in design & production tailored to work in a wide range of strategic industries.

Degree: Master of Science (M.Sc.)

Specifics: Interdisciplinary and practice-oriented degree course, learn via laboratory and practical courses to apply the theoretical knowledge in real applications.

Tuition fee: None

Start: Winter semester (1 October)

Duration: 4 semesters

Application deadline: 15 April

International Business of Developing and Emerging Markets (IBDEM)

Goals: This Master programme provides future managers with theoretical and practical insights into international business and economics. It permits the students to understand and participate in today’s and future opportunities in transition and development issues of worldwide business.

Degree: Master of Business Administration (MBA)

Specifics: Market oriented business training in modern management and practice for young future East and West managers. Study one semester abroad at a partner university. Accredited by ASIIN.

Tuition fee: none

Prerequisite: GMAT or GRE

Start: Winter semester (1 October)

Duration: 4 semesters

Application deadline: 15 April

International Management of Resources & Environment (IMRE)

Goals: Be able to solve general and specific problems in the field of resource management and environmental protection. To master the topics of general business administration to work as a manager, financial expert, banker, scientist, etc.

Degree: Master of Business Administration (MBA)

Specifics: Interdisciplinary, scientific approach to the management of natural resources & the environment. Accredited by ASIIN.

Tuition fee: None

Prerequisite: GMAT or GRE

Start: Winter semester (1 October), starting in summer semester (1 April) is possible, but may lead to an extension of studies

Duration: 4 semesters

Application deadlines: Winter semester: 15 April
Summer semester: 15 October
The average costs of living in Freiberg depend on your individual lifestyle and may vary between 550 and 750 € per month. For visa application you have to proof the availability of 10,236 € for one year.

**Average costs per month in Freiberg**
- Rent and utilities: 170–320 €
- Food, home necessities, laundry, etc.: 240 €
- Public health insurance: 110 €
- Phone & mobile internet: 15–20 €

**Important Fees in Freiberg**
- Public TV & radio licence fee per month (obligatory): 17,50 €
- Semester fee (each 6 months, as per winter sem. 2019/20): 94 €
- Residence permit for one year: 100 €

**Examples of everyday expenses in Freiberg**
- A loaf of bread (1 kg) at a local bakery: 2.90 €
- Apples, 1 kg: 2 €, depending on time in year
- Bus ticket: 2.20 €
- Train ticket to Dresden: 10.10 €
- Sports course at the university: 15 to 30 € for one semester
- A visit to the cinema: 5 to 10 €, depending on the day of the week
- A visit to the theatre: 8 to 23 €
The University

- Founded in 1765, it is regarded as the oldest mining university in the world
- Size: about 4,016 students
- TU Bergakademie Freiberg is one of the world’s leading universities in the fields of mining, geosciences and materials science.
- In the QS World University Ranking in the category Engineering – Mineral & Mining it is currently in fourth place.
- No tuition fees for all degree programmes
- More than 100 exchange agreements with foreign universities
- 34.5% international students
- TU BAF hosts the terra mineralia, one of the world’s most beautiful mineral collections
- University owns an underground mine for study and research
- The chemical elements Germanium and Indium were discovered in Freiberg
- The famous scientist and explorer Alexander von Humboldt studied in Freiberg

The City of Freiberg

- About 41,000 inhabitants
- Founded in the 12th century, the city developed rapidly, thanks to the discovery of silver ore
- A leading centre of semiconductor industry
- The charming medieval city centre with original architecture attracts many tourists
- Home to the oldest municipal theatre, to a multiplex cinema, several bowling alleys and a pub mile frequented by students
- All four seasons are well represented in Freiberg:
  ➔ In the heat of the summer months, several outdoor swimming pools and natural lakes offer a cool-down after a hard day’s work
  ➔ and in winter, the hills surrounding Freiberg are ideal for hiking, skiing and snowboarding
Application for admission to TU Bergakademie Freiberg

1. Bachelor or Diplom programme
You must apply for a Bachelor or Diplom programme via www.uni-assist.de. The application fee is 75 €.

2. Master programme
To apply for a Master programme, please read the information on this web page: tu-freiberg.de/en/international/apply-master

There is no application fee. You must submit several application documents to the Admissions Office, e.g.:
- Certified copies of educational certificates (high school, Bachelor degree incl. Transcript of Records)
- English/German language proficiency certificate(s)
- If required: officially certified/attested translations of all application documents into German or English
- As well as further documents, depending on the desired degree programme (see tu-freiberg.de/en/studies/study-programmes)

Application deadlines

The application deadline depends on the starting semester (winter or summer semester). The application deadlines of Master programmes taught in English can be found on pages 4 to 7 of this brochure.

Application deadlines for degree programmes taught in German are as follows:

Application deadlines in case visa is required as well in case German language intensive course or preparatory course (Studienkolleg) is required:
- 30 April for the following winter semester
- 31 October for the following summer semester

Application deadlines in case visa and German language course/preparatory course are not required:
- 15 July for the following winter semester
- 15 January for the following summer semester

For further information please visit the website of TU Bergakademie: tu-freiberg.de/en/international/application
Services of the International Centre – International Office

The International Office focuses the University’s international activities. It is responsible for international relations, study abroad programmes and support services for international students.

“We warmly welcome all new international students. We appreciate your motivation and enthusiasm to study abroad and are aware of the difficulties that you may encounter especially at the beginning of your stay. We offer support when you need it. New international students can get a buddy assigned. He or she will help you during the initial phase. We assist you in finding accommodation in Freiberg. We want you to feel good here because only then you are able to study efficiently and achieve your goals.”

Ingrid Lange, Director of the International Office

We offer:

• Help during the application process
• A Buddy Programme in cooperation with volunteer students
• Help in finding accommodation
• Welcome Point & Orientation Days in German and English at the beginning of each semester
• During studies: supportive language programmes
• Support to study abroad at partner universities

Services of the International Centre – Language Department

The Language Department offers a variety of German language courses as well as foreign language courses. Our German preparatory courses are for students holding a conditional admission for a study programme taught in German language:

• A2/B1 intensive course
duration 1 semester, 24 hours of instruction per week
• B2/C1 intensive course (DSH preparation)
duration 1 semester, 26 hours of instruction per week

For more information on German preparatory courses including fees please visit our website at tu-freiberg.de/en/international/german-courses.

German language courses during the semester are free of charge for enrolled students. Available levels range from A1 to B2, the duration is 1 semester with 4 hours of instruction per week.