Marine Geosciences
Master
Contents

Description of the programme ................................................................. 3
Requirements ............................................................................................ 3
Additional premises ................................................................................. 4
Perspectives ............................................................................................ 4
Course outline .......................................................................................... 5
Teaching .................................................................................................... 6
Teaching language ..................................................................................... 6
Studies abroad .......................................................................................... 6
Cooperation in teaching and research..................................................... 7
Programme start and duration of study .................................................... 8
Degree ....................................................................................................... 8
Teaching staff .......................................................................................... 8
First-year students ................................................................................... 8
Costs and accommodation ....................................................................... 8
Information on helpdesks, residential offer and Bremen City ................ 8
Application and enrolment ....................................................................... 9
Contact .................................................................................................... 10
Description of the programme
The international postgraduate study programme in Marine Geosciences is designed to research-related topics, with a particular accentuation placed on the specialities of the Bremen department. The programme comprises skills and methods enabling graduates to critically evaluate scientific results, and it provides a solid professional qualification for tasks in science and its applications. The interdisciplinary character of marine geosciences is reflected in a topic-oriented course structure. In addition to traditional lectures, classroom teaching, laboratories and applied field practice in marine geosciences, the programme strongly emphasizes the understanding and modelling of processes and dynamics in natural systems.

Requirements

- Bachelor of Science (or a comparable qualification) in a geoscientific field (a qualification in marine sciences will be assessed regarding specialization)
- At least 30 ECTS credit points or an equivalent amount of courses of the curriculum in maths, physics, chemistry and/or biology
- At least 60 ECTS credit points or an equivalent amount of courses of the curriculum in geosciences
- Very good command of the English language; level C1 according to the Common European Framework; recognised English proficiency test: www.fremdsprachenzentrum-bremen.de/vergleichstabelle. (This does not apply to applicants who obtained their university entrance qualification or prior academic degree in English.)
- Letter of motivation (The examining board evaluates the letter of motivation with respect to reference to the course, a clear description of the candidate's qualifications and future aims as well as their accordance with the focus of the course.)
Eligibility of applicants is evaluated based on their previous training (including field of study, grade point average, experience, etc.). No responsibility is taken for the correctness of the admission requirements. The information shows an excerpt of the admission regulations from 2014-01-22. Please be aware, that the requirements may change from year to year. For updated information visit www.uni-bremen.de/master.

**Additional premises**

- Explicit interest in marine geosciences
- Capacity to work both independently and as part of a team
- Intercultural competence (students will come from all over the world!)
- Willingness to participate in partly strenuous field courses
- Capacity to think in four dimensions
- Computer literacy

**Perspectives**

With their technical and vocational skills, graduates are excellently prepared for a variety of jobs:

- Marine geoscientific research (both basic and applied) at universities, research centres or authorities
- Consulting on engineering projects (e.g. off-shore wind power farms, harbour)
- Exploration and exploitation of resources (oil, gas, ore) off shore or at sea
- Coastal management (water management, monitoring of sediment movements, coastal protection, etc.)
- Public relations, scientific writing
- Science management
## Course outline

### Programme structure

<table>
<thead>
<tr>
<th>1st year</th>
<th>2nd year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Subject A</td>
<td>Core Subject B</td>
</tr>
<tr>
<td>Core S. A</td>
<td>Core S. B</td>
</tr>
<tr>
<td>Geoscientific Project</td>
<td>Research Seminar</td>
</tr>
</tbody>
</table>

## Mandatory and elective modules

The first year is addressed to teaching; lectures, seminars and projects are dedicated to so-called core subjects. Choosing 3 out of 6 core subjects (see syllabus), students can develop an individual profile. A conference on geoscientific topics with relevance to society and a combination of laboratory and field courses in 'Marine Field and Lab Practice' are mandatory. The 2nd year geoscientific project can either be a marine survey, a geo-media project or an external/international project in marine geosciences. The research seminar is about the development and presentation of research projects and prepares the students for their master thesis. The fourth semester is dedicated to thesis work. A colloquium completes the course.
Major fields of study
The six topic-centred core subjects are the following:

- Climate change
- Marine environmental archives
- Biogeochemical processes
- Marine resources and geotechnology
- Sedimentary structures and processes
- Physics and petrology of the ocean crust

Research in marine geosciences has a long tradition in Bremen and constitutes the main focus at the Department of Geosciences. All aspects of marine geosciences are covered, from sedimentology to petrology, from geophysics to biogeochemistry, from basic research to applied technology.

Teaching
Teaching units are scheduled mainly as weekly assignments throughout an academic semester. However, field excursions, laboratories or special projects may be scheduled as blocks assigned to a few weeks within a semester break.

Teaching language
English

Studies abroad
Optional
Cooperation in teaching and research

Research projects at the Department of Geosciences are mostly embedded in international programmes, resulting in frequent contacts with foreign scientists. The scientists at the department are also collaborating closely with colleagues from well-known research institutions in Germany, among them the MARUM, the Alfred Wegener Institute for Polar- und Marine Research (Bremerhaven), the Max-Planck-Institute for Marine Microbiology (Bremen), the Senckenberg am Meer Institute (Wilhelmshaven), and the Center for Tropical Marine Ecology (Bremen).

Such cooperations open up various options for students in terms of chances to gain special research experience through participation in research projects, through the formulation and accomplishment of a Masters thesis work, among others.

The multidisciplinary nature of marine geoscientific research and the application of up-to-date scientific instruments play an important role in teaching methods and topics.
Programme start and duration of study
Programme start: every winter semester
Standard period of study: 4 semester, BAföG-funding refers to the standard period of study.

Degree
Master of Science M.Sc.

Teaching staff
Full-time professors at the department: 21; additional professors: 13; other scientific teaching staff: approx. 45.

First-year students
female: 13, male: 28 (winter semester 2015/16)

Costs and accommodation
The University of Bremen levies a mandatory semester contribution of currently 298,92 € to cover administration, payment to the German student organization and a ticket for the local public transport by train and bus (www.uni-bremen.de/semesterbeitrag). Only students, who have been studying free of tuition fees for more than 14 semesters in an EU-country (including Iceland, Norway and Switzerland), have to pay a study fee of 500 € per semester (www.uni-bremen.de/studiengebuehren).

Students will have to make arrangements for their own living expenses. We estimate that one person will face monthly expenses of about 800 €. This figure includes the rent and maintenance of a room or a small apartment, and basic food costs. Please be aware that you may run up some additional bills to cover other requirements e.g. for books, different study materials or field courses, as well as for warm clothes and rain gear to get you through the fresh and cold seasons.

Information on helpdesks, residential offer and Bremen City
www.uni-bremen.de/studium/beratung-service
www.bremen.de
www.studentenwerk.bremen.de
Application and enrolment

Application deadline
Application for master beginners is only possible to the winter semester. Application deadline winter semester: April 30th for beginners; July 15th for advanced students, summer semester: January 15th (only advanced students).

Application is possible, if the undergraduate degree is not finished until April 30th, but at least 132 ECTS credit points of a total of 180 credit points or an equivalent amount of study points are gained. For preliminary admission all other requirements with exception of the language proof should be fulfilled.

To get successfully enrolled the bachelor degree and the language certificates must be sent/handed in the latest two weeks after start of the lecture period.

Online application portal
The online application portal is open from March until April 30th, each year. Please follow the instructions under:
www.uni-bremen.de/master

Enrolment Office (Secretariat for Students International)
Visiting address: Bibliothekstraße 1, Verwaltungsgebäude
Ground floor
Postal address: Universität Bremen
SfS-International
Postfach 33 04 40
28334 Bremen

Phone/fax: +49 421 218-61002/+49 421 218-61125
master@uni-bremen.de
www.uni-bremen.de/master

Visiting hours: Mo, Tue & Thu 9–12 a.m., Wed 14–16 p.m.
(no advanced notification necessary)
Contact

Internet address
www.geo.uni-bremen.de/mscmarine

Consultancy for study affairs and career perspectives
Helpdesk regarding course-information, programme-coordination, time scheduling, study abroad, general studies, quality management, career perspectives as well as

Academic counseling
In questions focusing on study design, core subject- and regulation regarding aspects
Dr. Ulrike Wolf-Brozio
Dr. Barbara Ventura
GEO-building, room no. 1330/1350
+49 421 218 65004/65005
msc.marin@uni-bremen.de

Advice for international students
Information and advice on housing, working, health insurance, visa and more
Claudia Pellegrino
SFG, Raum 0370
Mo, Do 10-12 Uhr, Mi 14-16 Uhr
+49 (0)421 218 60365
claudia.pellegrino@vw.uni-bremen.de

Examination office
Susanne Steinfeld
GEO-building, room no. 1300
+49 421 218 65012
steinfeld@uni-bremen.de
Student representatives

StugA Geowissenschaften
GEO-building, room no. 1340
stuga@geo.uni-bremen.de
www.geo.uni-bremen.de/FB5/stuga/
Forum: www.geobremen.de

Student’s union (AStA)
Student representation for the entire University
Services: BAföG- and social advisory, childcare
AStA-Floor, Studentenhaus (StH)
www.asta.uni-bremen.de

Last update: 10/2016 (Ma)
Zentrale Studienberatung

Besuchsadresse:
Bibliothekstr. 1, Verwaltungsgebäude VWG,
Haupteingang, Erdgeschoss, Flur links

Postadresse:
Universität Bremen
Zentrale Studienberatung
Postfach 33 04 40
28334 Bremen

0421 218-61160
zsb@uni-bremen.de
www.zsb.uni-bremen.de

Beratungszeiten (ohne Voranmeldung):
Mo, Di & Do 9–12 Uhr
Mi 14–16 Uhr
Zusätzliche Termine für Berufstätige und Auswärtige
nach Vereinbarung