Key data

Degree program

Duration: 6 semesters (3 years)

Degree: Bachelor of Science

Type of qualification: single major subject

Application

Requirements
- University entry qualification (e.g. Abitur)
- English B2, German A1

Restrictions: none - open admission

Application period (winter semester):
May 1 - July 15

Application period (summer semester):
Dez 1 - Jan 15

5 good reasons ...

... for a bachelor‘s degree in Marine Geosciences at the University of Bremen

1. Practical experience from the first semester onwards in labs, in the field, at sea, in companies
2. International degree program entirely in English
3. Personal study profile by choosing degree specializations as early as the fourth semester
4. Active participation in current research projects
5. Leading marine geoscientific research

Academic Advisory Office

Subject-specific advice about course content, course planning, and examination regulations

Dr. Ulrike Wolf-Brozio
GEO Building, Room 1330
Phone 0421 218-65004
wolfbroz@uni-bremen.de

Dr. Barbara Ventura
GEO Building, Raum 1350
Phone 0421 218-65005
bventura@uni-bremen.de

Additional information about the degree program
www.uni-bremen.de/ba-margeo

Central Student Advisory Service

Bibliothekstr. 1, VWG building,
Main entrance, corridor on the left

Phone 0421 218-61160
zsb@uni-bremen.de
www.uni-bremen.de/en/zsb

Advisory services in person, via Zoom, or telephone

Stand 01/2026

Universität Bremen

EN

Marine Geosciences

Bachelor’s Degree

Marine Geosciences

Marine geosciences explores the scientific aspects of the marine environment as part of the Earth system. Marine geoscientist‘s goal is to understand the structure and processes of the seas and oceans as well as the solid earth and their interactions in order to contribute to the protection and sustainable development of our habitat. Marine geoscientists also study pressing issues such as rising sea levels, coastal erosion, melting sea ice, ocean acidification, and pollution. They also seek responsible ways to manage marine resources.

Special Characteristics

Bremen is internationally renowned for its research into the seas and ocean floors. Thanks to the expertise and methodological competence of Bremen's marine research, this program is the only one in Germany that offers an undergraduate degree in marine geosciences. It is an international study program, hence, the language of instruction is English.

The close link to research and the extensive practical components in the laboratory, in the field, on ship expeditions, and on the computer are important features of the degree program. Students experience research first hand, particularly in the specialization courses and in the bachelor‘s thesis.

The Faculty of Geosciences maintains intensive research and teaching partnerships with MARUM, Senckenberg am Meer, the Alfred Wegener Institute for Polar and Marine Research, the Max Planck Institute for Marine Microbiology, and the Leibniz Center for Tropical Marine Research. These partnerships contribute to the faculty’s high-quality, relevant teaching and excellent supervision, and often provide students with job opportunities to apply the knowledge gained in their degrees.

Study Structure

<table>
<tr><td>1. Semester</td><td>GEO-Principles I: Earth Dynamics, Mineralogy/ Crystallography</td><td>Chemistry I, Physics I, Maths I</td></tr>
<tr><td>2. Semester</td><td>GEO-Principles II: Evolution of Earth and Life, Structural Geology/ Tectonics</td><td>Chemistry II, Physics II, Maths II</td></tr>
<tr><td>3. Semester</td><td colspan="2">GEO-Principles III: Oceanography, Marine Sediments, Rock Forming Processes, Applied Geophysics, Sediment Core Project</td></tr>
<tr><td>4. Semester</td><td rowspan="3">Specialization: 3 specialization subjects</td><td rowspan="2">Competence training</td></tr>
<tr><td>5. Semester</td></tr>
<tr><td>6. Semester</td><td>Bachelor‘s thesis</td></tr>
</table>

Accompanying practical training

Geoscience studies are supplemented by courses to acquire professional skills. The practical training includes field exercises and excursions, programming, modeling, GIS, a four-week professional internship. It also includes freely selectable courses used to individualize your profile, which can include additional internships, activities to support teaching, and General Studies courses. These courses can be used to acquire study techniques, key qualifications (e.g. languages) and career guidance.

Specialization

From the fourth semester onwards, students can select three of the ten specializations:

Exploration Geophysics, Geochemistry, Geodynamics, Geoinformatics, Hydro- und Engineering Geologie, Crystalline Materials, Paleoceanography, Paleontology, Petrology and Deposit Science, and Sedimentology.

Some of the core subjects are taught in German.

Prospects

The degree program prepares students for a modern and varied professional career. Graduates are qualified for operational, analytical, and advisory activities in all geo-sectors, for example in the offshore industry, ports, coastal and water management, monitoring of sediment flows, coastal protection, activities in marine geotechnics, tasks in municipal and state authorities, public relations.

Employers include energy, construction, and transport companies, planning offices and environmental laboratories, authorities, media, educational, and research institutions.

The bachelor’s degree in Marine Geosciences opens up options of further qualification in a master's degree program. The following master‘s degree programs are available at the University of Bremen:

- M.Sc. Applied Geosciences
- M.Sc. Marine Geosciences
- M.Sc. Materials Chemistry and Mineralogy (with a specialization in Crystalline Materials)
- M.Sc. Marine Microbiology (with a specialization in Paleontology)
- M.Sc. Physical Geography: Environmental History

Further suitable master‘s degree programs:

www.uni-bremen.de/masteroptions

International

Would you like to go abroad? You have the option to spend up to two semesters at a foreign university, or to do an internship abroad. Semesters abroad are best integrated into the third year of study. The faculty’s Academic Advisory Office and the Career Orientation Office will be happy to assist in planning your stay abroad and, with prior consultation, with transferring credits from the university you visited.