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Prof. Dr. Bernd Blasius
Academic Advisor

www.uni-oldenburg.de/en/students/application-and-enrolment

For more detailed information and deadlines, refer to:

Application and Enrolment

Entry requirements
Generally, applicants may be admitted to a Master Study Course if they hold a Bachelor degree or equivalent qualification in the same or related subject and if they demonstrate their professional and personal competence (e.g. by writing a Letter of Motivation).

Please refer to admission regulations for further details about admission requirements and application procedures.

Application
Applicants with a German university entrance qualification: Please apply online at University Oldenburg.

EU or International applicants: Please apply via uni-assist e. V.

For more detailed information and deadlines, refer to: www.uni-oldenburg.de/en/students/application-and-enrolment

Contact

For questions regarding your course of study
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Status: 05/2017

Marine Environmental Science
(M.Sc.)

Degree:
Master of Science

Entry requirements
StudierendenServiceCenter
Campus Haarentor A12
26129 Oldenburg
0441-798-2728
studium@uni-oldenburg.de
www.uni-oldenburg.de/de/studium/finanzierung

Further Information
Homepage Marine Environmental Science

Range of study courses
www.uni-oldenburg.de/en/students/degree-programmes

Funding
www.uni-oldenburg.de/de/studium/finanzierung

Numbers and Facts
Start: Wintersemester
Duration: 4 semesters
Degree: Master of Science

Single-Subject Bachelor
Dual-Subject Bachelor
PhD

General advice regarding studies
Study and Career Counselling Service - Zentrale Studien- und Karriereberatung

Application procedures / Entry requirements
Admissions Office - Immatrikulationsamt

Application
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The Master's programme Marine Environmental Science is a study course of the Institute for Chemistry and Biology of the Sea (ICBM). Here, a large number of national and international research programmes focus on interdisciplinary marine environmental research. Thematic key aspects are coastal and shallow sea research, marine microbiology as well as climate and earth system research. ICBM scientists study the Wadden and North Sea, operate in Antarctica and off the coast of Africa, and take part in research cruises on all seas of the world. In addition, the ICBM runs a permanent research platform in the Wadden Sea and conducts various research studies in the coastal areas using its own research boats.

The study programme aims at an in-depth training of qualified scientists in the fields and methods of modern environmental science applied to marine research. In addition to theoretical knowledge, the programme provides students with substantial practical training, ranging from strategies for processing data to applications of powerful instruments for chemical and microbiological environmental analysis. Moreover, students learn to independently conduct scientific research on complex issues as well as to work in a team and communicate the background and results of their own research.

The ICBM is the sole university-based marine research institute in the federal state of Lower Saxony. Here, natural scientists of all disciplines teach and conduct research. Chemists, physicists, mathematicians, biologists, geologists and ecologists work together on current issues in marine research. The interdisciplinary way of thinking and acting in both teaching and research is a key strength of the ICBM. Already at an early stage, the students of the Master's programme Marine Environmental Science get involved into the research activities. The study course is also integrated into the cluster of Master courses on environment and sustainability at the University of Oldenburg.

**Course structure and content**

Students of the Master's programme Marine Environmental Science will acquire 120 credit points (CP). During the first three semesters, students have to take courses worth 90 credit points. This is followed in the fourth semester by a six-month Master's thesis and an accompanying seminar worth 30 credit points.

The study course Marine Environmental Science consists of the following modules:

- **Introduction to Marine Environmental Science** 6 CP
- **Fundamentals Competences in Marine Environmental Science** 15 CP
- **Environmental Systems** 12 CP
- **Major Study Area** 21 CP
- **Complementary Modules** 18 CP
- **Excursion Module** 6 KP
- **Environmental Science Research Project** 12 CP
- **Master's thesis** 30 CP

The beginning phase of this programme (first subject-specific semester) focuses on the specific aspects of mathematics and science that relate to environmental systems. The advanced studies phase (second and third semester) serves three educational objectives: By discussing different examples, students can expand their knowledge about the interaction of various processes in and the behaviour of environmental systems. Also, students develop their own individual qualification profiles and choose a specialisation from one of the three following subject areas:

- **Biology** (topics: environmental microbiology, planktonology, ecology)
- **Chemistry/geosciences** (topics: geochemistry, marine chemistry, environmental analysis)
- **Physics/modelling** (topics: complex systems, environmental modelling, geophysics/oceanography).

During the third semester, a small, largely self-directed research project introduces students to interdisciplinary environmental research. The ICBM supports students who choose to carry out this research project at a university or research institute abroad. In the final phase of the programme (fourth semester), students independently prepare an academic Master's thesis, which needs to be adequately presented and discussed.

**Careers and Areas of Employment**

Graduates of the study course Marine Environmental Science often move on to doctoral studies, aiming at a research-oriented career in one of the scientific disciplines. After completing their doctorate, graduates frequently work in national and international research institutions. In particular, graduates of this programme are sought where there is a need for interdisciplinary approaches to solving environmental and scientific problems, such as in connection with climate change.

Graduates of the course Marine Environmental Science are qualified for various environmental and scientific professions, such as in environmental management, planning offices, public authorities, research and development, policy advice or environmental education. Depending on the individual specialisation, marine environmental scientists may manage complex analytical instruments (focus geochemistry/analytics), conduct biological quality assurance in industry (focus microbiology) or develop software (focus physics and modelling).