



## Facts and figures

**Start:** Winter semester  
(Summer semester only in reasonable cases)  
**Duration:** 4 semesters  
**Degree:** Master of Science  
**Language:** German  
**Admission not restricted**

## Application and enrolment



### Admission requirements

**General admission requirements:**  
[www.uol.de/stud/210en](http://www.uol.de/stud/210en)

### Language skills:

German native speaker or DSH 2  
English recommended (level B2)

### Application

**Application deadline:** 30 September (or 31 March)

### German university degree:

Online application  
[www.uol.de/studium/bewerben/master](http://www.uol.de/studium/bewerben/master)

### EU or international applicants:

[www.uol.de/en/application/international-students/master](http://www.uol.de/en/application/international-students/master)

## Contact

**For questions about the subject/degree programme**  
**Academic counselling for Marine Environmental Sciences**

[www.uol.de/en/subject-specific-student-advice](http://www.uol.de/en/subject-specific-student-advice)

**Student representatives for Marine Environmental Sciences, Environmental Modelling, Microbiology and Marine Sensor Systems**

[www.uol.de/en/student-council-of-the-icbm-masters](http://www.uol.de/en/student-council-of-the-icbm-masters)  
[master-icbm@uol.de](mailto:master-icbm@uol.de)

**For questions about your studies**

Study and Career Counselling Service  
[www.uol.de/en/zskb](http://www.uol.de/en/zskb)

**Basic questions about application and enrolment**

Student InfoLine  
**Phone** +49 441 798 - 2728  
[study@uol.de](mailto:study@uol.de)

### Visitor address

Student Service Centre – SSC  
Haarentor campus, building A12  
26129 Oldenburg  
[www.uol.de/en/students/service-advice](http://www.uol.de/en/students/service-advice)

## Further information

**Marine Environmental Sciences website**

[www.uol.de/en/icbm/muwi-msc](http://www.uol.de/en/icbm/muwi-msc)

**Degree programmes at the University of Oldenburg**

[www.uol.de/en/students/degree-programmes](http://www.uol.de/en/students/degree-programmes)

**Financing your studies**

[www.uol.de/en/students/fees/financing-your-studies](http://www.uol.de/en/students/fees/financing-your-studies)

**Optional period abroad**

[www.uol.de/en/going-abroad](http://www.uol.de/en/going-abroad)

**Published by**

Study and Career Counselling Service, Division 3  
Last updated: 12/2023, reviewed annually

Carl von Ossietzky  
Universität  
Oldenburg

# Marine Environmental Sciences

Master's degree



## Marine Environmental Sciences (M. Sc.)

The Marine Environmental Sciences Master's programme is conducted by the Institute for Chemistry and Biology of the Marine Environment (ICBM). The interdisciplinary marine environmental research conducted at the Institute plays an important role in many national and international research programmes.

The objective of the Master's programme is the in-depth training of students in the scientific fields and methods of modern marine environmental sciences, with a special focus on marine research. The programme covers not only theory, but also wide-ranging practical components – from data-processing strategies to using powerful equipment for chemical and microbiological environmental analysis.

Additionally, students learn to gain scientific knowledge independently and in teams by tackling complex tasks. They also acquire the ability to communicate the basic contents and findings of their own research.

### Career opportunities

Graduates are qualified for careers in environmental and natural science fields, especially where there is a need for interdisciplinary approaches:

- Environmental management, planning companies, public authorities
- Research and development
- Policy advice
- Environmental education

Depending on their individual specialisation, graduates can for example work in the following fields:

- Monitoring complex analytical equipment
- Biological quality assurance in industry
- Adaptation of measuring methods for expeditions
- Software development
- Academic career (PhD)

## Structure and contents

SUBJECT MODULES	90 CP
Compulsory modules / 18 CP	
Introduction to Marine Environmental Sciences / 6 CP Environmental Sciences research project / 12 CP	
Elective modules / 72 CP	
At least one module (6 CP) from each area	
Mathematical Modelling Ocean, Climate and Environmental Physics Geochemistry, Chemical Analysis Biology, Ecology Marine Sensor Systems and Operational Oceanography	
Up to three modules (6 CP) from the area	
Practical work (excursions, programming and diving courses)	
Interdisciplinary modules	
Upon application, up to 24 CP from master modules at home and abroad	
COMPULSORY	30 CP
Master's thesis module	
MASTER OF SCIENCE	120 CP

SEMESTER 1 / 2 / 3

SEM. 4

For the compulsory module Environment Science research project in the third semester, students work independently on a research project. They can also conduct this project at other scientific institutions in Germany or abroad, or outside the academic sphere.

## Reasons for studying

The Institute for Chemistry and Biology of the Marine Environment focuses in particular on research into coastal and shallow seas, marine microbiology, and climate and Earth system research. Scientists at the ICBM study the Wadden Sea and the North Sea, work in other regions such as the Antarctic and off the coast of Africa, and take part in research expeditions on all the world's oceans. Furthermore, the ICBM maintains a permanent measuring station in the Wadden Sea and carries out various scientific investigations in the coastal area, using its own boats.

The ICBM is Lower Saxony's only university-based marine research institute. Scientists at the Institute teach and conduct research in all mathematical and natural sciences disciplines. Chemists, physicists, mathematicians, biologists, geologists, ecologists and engineers work together on current topics in marine research. This interdisciplinary approach is an essential strength of the ICBM in research and teaching. Students are involved in research activities right from the start.

The study programme is embedded in a cluster of seven Master's programmes in the field of environment and sustainability at the University of Oldenburg.