Facts and figures

Start: Summer semester
(winter semester only in reasonable cases)
Duration: 3 semesters
Degree: Master of Science
Language: German/English
Admission not restricted

Application and enrolment

Admission requirements
General admission requirements:
www.uol.de/stud/559en

Language skills:
German native speaker or DSH 2
English native speaker or level B2

Application
Application deadline: 31 March (or 30 September)

German university degree:
Online application
www.uol.de/studium/bewerben/master

EU or international applicants:
www.uol.de/en/application/international-students/master

Contact

For questions about the subject/degree programme
Academic counselling for Marine Sensor Systems
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
master.icbm@uol.de

For questions about your studies
Study and Career Counselling Service
www.uol.de/en/zskb

Basic questions about application and enrolment
Student InfoLine
Phone +49 441 798 - 2728
study@uol.de

Visitor address
Student Service Centre – SSC
Haarentor campus, building A12
26129 Oldenburg
www.uol.de/en/students/service-advice

Further information

Marine Sensors website
www.uol.de/en/marsens-msc

Degree programmes at the University of Oldenburg
www.uol.de/en/students/degree-programmes

Financing your studies
www.uol.de/en/students/fees/financing-your-studies

Optional period abroad
www.uol.de/en/going-abroad

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Carl von Ossietzky
Universität
Oldenburg

Marine Sensors

Master's degree

Marine Sensors (M. Sc.)

Oceans and coastal seas are highly complex systems which are used in many ways by humans. Innovative measuring techniques and platforms are necessary to measure quantifiable parameters for determining the state of and changes to marine systems. Marine sensors and sensor systems are important cross-sectional technologies for all areas of marine research and technology.

The Marine Sensors Master's programme offers a research-oriented qualification in the development, optimisation and analysis of sensors as well as measuring methods for all areas of marine research and technology. Students are also qualified to independently perform scientific work on complex tasks and to work in teams in research communication.

For admission to the Marine Sensors Master's programme, applicants must hold a Bachelor in a relevant subject with a total of 210 credit points. Degree programmes with a total of at least 180 credit points may be acceptable under the condition that students acquire any missing skills in a bridge semester during which they gain 30 credit points.

Career opportunities

Master graduates are qualified for the following fields:

– Independent research and development
– Leadership of development teams
– Implementation of observation systems
– Consulting for end users

They find employment in e.g. these organisations:

– Research institutes and public authorities
– Sensor and sensor technology companies
– Consulting and sales companies
– Marine technology companies

Structure and contents

SUBJECT MODULES	**60 CP**	**SEMESTER 1/2**
Compulsory modules / 36 CP		
Practical module Marine Field Research / 12 CP		
Research project Marine Sensors / 12 CP		
Marine Environmental Sciences / 6 CP (freely selectable module from the Master's programme in Marine Environmental Sciences)		
Freely selectable specialisation / 6 CP (freely selectable module from the (unrestricted-admission) Master's degree programmes of the University of Oldenburg, the courses of the Jade University of Applied Sciences or the Language Centre)		
Elective modules / 24 CP		
Ocean Models / 6 CP		
Regional Oceanography / 6 CP		
Aquatic Optics / 6 CP		
Time Series Analysis / 6 CP		
System Technology / 6 CP		
Robotics / 6 CP		
COMPULSORY	**30 CP**	**SEM. 3**
Master's thesis module		
MASTER OF SCIENCE	**90 CP**	

Specialisations

The compulsory modules cover core competences in the areas seagoing expeditions and offshore technologies from planning to logistics, data collation, evaluation and presentation.

In the freely selectable compulsory module, students choose a module from the entire range of the Master's programme in Marine Environmental Sciences at the University of Oldenburg. This determines their individual specialisations. Additionally, students can choose a Master's module offered by the University of Oldenburg, the Language Centre, Jade University of Applied Sciences or an external institution. This module must have a meaningful connection to the Marine Sensors programme. In the final semester, students complete their Master's thesis.