

Facts and figures

Start: Winter semester Duration: 4 semesters Degree: Master of Science Language: German/English Admission not restricted

Application and enrolment



Admission requirements General admission requirements: www.uol.de/stud/608en

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

Application Application deadline: 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 Physics, Engineering and Medicine

www.uol.de/en/subject-specific-student-advice

Student representatives for Physics www.uol.de/en/student-bodies/ student-council-of-physics fsphysik@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

Physics, Engineering and Medicine website www.uol.de/ptm/fach-master

Cluster of excellence "Hearing4all" www.hearing4all.de/en

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

Physics, Engineering and Medicine

Master's degree



Physics, Engineering and Medicine (M. Sc.)

Master graduates who specialise in medical technology, neurosciences or acoustics can pursue a career in medical research, industry or medical practice after graduating from a programme with the right mix of theory and practice. The Master's programme in Physics, Engineering and Medicine provides the necessary skills. The practice-oriented, interdisciplinary study programme conveys and combines skills from physics and electrical engineering with theoretical competences in medicine, biology and psychology.

Career opportunities

The field of medical technology is one of the most rapidly evolving sectors in the world. This means excellent career opportunities for graduates.

The Master's degree qualifies them in particular for the following fields:

- Applied Physics
- Medical Technology
- Academic career (PhD) in Germany and abroad

Structure and contents

THEORY	12 CP	
Machine Learning / 6 CP Elective module Theory / 6 CP		
HEARING AND LANGUAGE RESEARCH	12 CP	
Psychophysics and Audiology / 6 CP Elective module Hearing Research / 6 CP		
NEUROPHYSICS AND NEUROTECHNOLOGY	12 CP	m
Introduction to Neurophysics / 6 CP Elective module Neurophysics and Neurotechnology / 6 CP		3 1/2/
MEDICINE	12 CP	Ë
Problem Solving in Medicine / 6 CP Advanced Seminar Physics – Technology – Medicine / 6 CP		SEMES
LABORATORY	18 CP	
Block Practical / 6 CP Project Practical in Physics – Technology – Medicine / 12 CP		
SOFT SKILLS AND AREA OF SPECIALISATION	9 CP	
Soft Skills / 3 CP Area of specialisation / 6 CP		
SPECIALISATION	15 CP	
Specialisation (preparation for Master's thesis)	/ 15 CP	
COMPULSORY	30 C P	Δ.
Master's thesis module		SE
MASTER OF SCIENCE	120	СР

Reasons for studying

Through its focus on hearing and speech research as well as neurophysics, neurotechnology and medicine, the programme offers excellent training in the field of medical technology and enables an entry into a high-level research field and diverse career options in industry, medicine and academia.

The programme is linked to the Hearing4all cluster of excellence and therefore has a highly interdisciplinary quality, combining physics, medicine, acoustics and neurosciences. It offers early research contacts and opportunities to work in university and extra-university institutes such as Fraunhofer, HörTech and Hörzentrum Oldenburg.

