FACULTY
The Master program Neuroscience is jointly hosted by the School of Mathematics and Science and by the School of Medicine and Health Sciences. Our interdisciplinary faculty comes from the departments Neuroscience, Biology & Environmental Science, Psychology, Human Medicine and Medical Physics & Acoustics.

STUDENT BODY
We represent and support all Master Neuroscience students and take an active role in shaping the program. Please do not hesitate to contact us!

APPLICATION

Application Requirements
- B.Sc. in Neuroscience, Biology, Psychology, Computer Science, Engineering or other related discipline.
- Completed at least 12 ECTS courses in neuroscience and 12 ECTS courses in mathematics / statistics / programming. 6 ECTS of these 24 ECTS can be completed after admission to the program.
- Proof of English proficiency, level B2.
- Motivation letter, written in English.

Application Procedure

Applicants with German entrance qualification
Application period May 1 - 31
www.uni-oldenburg.de/i-amt

International applicants
Applications should be filed by March 31
www.uni-assist.de

Admission will be given to the best students, depending on final grade. Additional bonus points can be earned by internships or participation in neuroscience projects, scientific publications or awards, at least one semester study abroad, social engagement or volunteer work.

Information

Master program homepage
www.uni-oldenburg.de/en/master-neuroscience
master-neuroscience@uni-oldenburg.de

Student body
www.uni-oldenburg.de/en/student-body-neuroscience
fachschaft.neuroscience@uni-oldenburg.de

General questions regarding studies in Oldenburg
www.zsb.uni-oldenburg.de
studienberatung@uni-oldenburg.de

MASTER PROGRAM NEUROSCIENCE
Focused on sensory systems
WHY STUDY NEUROSCIENCE IN OLDENBURG?

Focus: Sensory systems
Levels: From molecule to behavior
Science-oriented: Individual student research projects
Skills-oriented: Specific skills courses complement the scientific education
Hands-on: Almost all courses include lab time or exercises
Intensive: Block courses focus on one topic at a time
International: All courses in English, optional semester / research project abroad
Interdisciplinary: Teachers & students with mixed backgrounds, joint courses in Biology & Psychology
Flexible: Individual study plans, wide choice of courses
Personal: Small groups, close contact to teacher-scientists

Future perspectives in Oldenburg: PhD Neurosensory Science & Systems, Research Center Neurosensory Sciences, Cluster of Excellence Hearing4all, graduate schools, collaborative science projects

CURRICULUM
The program takes 2 years to achieve 120 ECTS. There are no mandatory courses except for the master thesis.

RESEARCH MODULES
Are individual student research projects on a variety of different topics in the supervisor’s lab at the University of Oldenburg or in any international neuroscience research lab. The aim is to practice independent research, including experiments, background literature and presentation of results. Lab time lasts 6-8 weeks.

Projects on all background module topics 15 – 45 ECTS
Research Module in Oldenburg or external 15 + 15 + 15

SKILLS MODULES
Professional skills are developed in courses for up to 25 students.

Skills module topics 6 – 45 ECTS

Data analysis in Matlab, Python, R 6 + 6 + 6
Bioethics, seminars in ageing 6 + 6
Scientific English 6
Science communication 3 + 3
Lab animal science 3

ELECTIVE
30 ECTS (one semester) can be chosen from:
- All courses of the M.Sc. Neuroscience curriculum
- Courses of related Master programs, e.g. Biology, Neurocognitive Psychology, Audiology, Computer Science
- Up to one semester at an international university

BACKGROUND MODULES
Provide background knowledge on a neuroscientific topic. Courses for 8 - 20 students are organized in full-time blocks of 2 - 7 weeks and usually consist of lecture, seminar and hands-on practicals. Modules can be chosen in any combination.

Background module topics 30 – 69 ECTS

- Biological background, research techniques 6 + 6
- Molecular & cellular biology, biochemistry 12 + 12
- Behavior & cognitive neuroscience 9 + 6
- Computational neuroscience 12 + 6
- Auditory neuroscience 12 + 6
- Visual neuroscience 12 or 6
- Invertebrate neuroscience 6 + 6
- Development & evolution 9 + 6
- Neurophysics & biophysics of reception 6 + 6
- fMRI data analysis 12 or 6