



Facts and figures

Start: Winter and summer semesters

Duration: 4 semesters

Degree: Master of Science

Language: German

Admission not restricted

Application and enrolment



Admission requirements

General admission requirements:

www.uol.de/stud/211en

Language skills:

German native speaker or DSH 2

Application

Application deadline: 30 September or 31 March

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 Mathematics

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

Student representatives for Mathematics and Elementary Mathematics

www.uol.de/en/fsmathe

fachschaft.mathematik@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

Mathematics website

www.uol.de/en/mathematik/studium-lehre/studyinfo

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

Published by

Study and Career Counselling Service, Division 3

Last updated: 04/2022, reviewed annually

Carl von Ossietzky
Universität
Oldenburg

Mathematics

Master's degree



Mathematics (M. Sc.)

Modern mathematics is essential for the important technological and scientific developments that underpin our lives today. The subject is a vibrant science with high standards of rigour, consistency and aesthetics. Applying its characteristic abstraction, mathematics generates varied, universally applicable methods for the analysis, understanding and prediction of processes in technology, life sciences, the economy and society.

Career opportunities

Graduates who hold this Master are qualified for a wide range of activities with high-level mathematical applications in research, industry, and business:

- Banks and insurance companies
- Business consulting
- Research and development in industry and scientific institutions
- Public service
- Software companies
- Data processing
- Academic career (PhD)

Structure and contents

SUBJECT MODULES	66 CP
Elective module of a focus area / 30–42 CP	
Analysis and Numerics: Theory, Modelling, Applications Algebra and Number Theory: Theory, Algorithms, Applications Applied Mathematics	
Elective modules / 24–36 CP from other specialisations	
SECONDARY SUBJECT	12 – 18 CP
Elective modules from: Biology, Chemistry, Computing Science, Philosophy, Physics, Marine Environmental Sciences, Environmental Modelling or Economics	
AREA OF SPECIALISATION	6 – 12 CP
Elective modules from: Specialisation range, Computing Science, Economics, tutoring activities or non-university internship	
COMPULSORY	30 CP
Master's thesis module	
MASTER OF SCIENCE	120 CP

SEMESTER 1/2/3

SEM. 4

Specialisation

The Master's programme in Mathematics in Oldenburg offers Bachelor graduates in a suitable subject the opportunity to build on and expand the knowledge they have already gained. There is an emphasis on independent working and links to current research fields. Students gain the ability to mathematically formulate problems and solve them independently. The core areas of the Institute of Mathematics are

- Analysis and numerics as well as mathematical modelling with partial differential equations
- Algebra and number theory, in particular computer algebra and cryptography
- Applied statistics and mathematics for insurance and banking

