



## 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/37en](http://www.uol.de/stud/37en)

### 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 Chemistry**

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

**Student representatives for Chemistry**

[www.uol.de/en/1](http://www.uol.de/en/1)

[fschemie@uol.de](mailto:fschemie@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

### Chemistry website

[www.uol.de/chemie/studium](http://www.uol.de/chemie/studium)

### 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)

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Carl von Ossietzky  
Universität  
Oldenburg

# Chemistry

Master's degree



## Chemistry (M. Sc.)

Chemistry is a scientific interdisciplinary field. With its basic concepts, theories and models it contributes in a key way to a critical and rational world-view. The discipline is one of the fundamental pillars of our society and essential for its positive development. Chemical research and the application of its findings in the various fields of business, industry and institutions form a vital cornerstone of value creation in Europe.

The Master's programme in Chemistry prepares students for a career actively driving innovation through the application of knowledge and scientific methods, and utilising the results for the benefit of society.

The Chemistry programme in Oldenburg is ideal for students interested in Chemistry and new materials, who like to combine theory with practical experiments, who enjoy science-based discussions and who value close communication with professors and scientific assistants. For an overview of the research groups in chemistry and further information on the degree programme, go to the Institute of Chemistry (IfC) website: [www.uol.de/en/chemistry](http://www.uol.de/en/chemistry)

## Career opportunities

The Master's degree qualifies graduates to work under their own responsibility as chemists in business and research:

- Chemical research in industry
- Services and consulting in public or private institutions
- Academic career (PhD) in Chemistry or related sciences, nationally or internationally

## Structure and contents

<b>SUBJECT MODULES</b>	<b>66 – 90 CP</b>
Elective modules	
Inorganic Chemistry for advanced students / 9 CP	
Current resonance spectroscopy methods in Inorganic Chemistry / 6 CP	
Inorganic Chemistry research internship / 15 CP	
Organic Chemistry for advanced students / 9 CP	
Modern NMR spectroscopic and mass spectroscopic methods in Organic Chemistry / 6 CP	
Organic Chemistry research internship / 15 CP	
Physical Chemistry of interfaces / 9 CP	
Theoretical Chemistry / 6 CP	
Physical Chemistry research internship or Theoretical Chemistry research internship / 15 CP	
Process Technology / 6 CP	
Technical Chemistry research internship for advanced students / 15 CP	
Heterogeneous catalysis and materials / 9 CP	
Elective module from other degree programmes / 6 CP	
<b>INTERDISCIPLINARY SPECIALISATION</b>	<b>UP TO 24 CP</b>
Elective modules from other degree programmes (on request)	
<b>COMPULSORY</b>	<b>30 CP</b>
Master's thesis module	
<b>MASTER OF SCIENCE</b>	<b>120 CP</b>

SEMESTER 1 / 2 / 3

SEM. 4

## Specialisation

The Institute of Chemistry of the University of Oldenburg aims to map the structures and reaction principles of living nature in artificial systems under mild reaction conditions, and to embed the results into integrated functional systems. This makes it possible to ultimately translate the findings into technical applications which are superior to traditional processes in terms of atom economy and the utilisation of energy and resources. This is how the Institute of Chemistry contributes continually to the establishment of a sustainable economy in Europe.

The Master's programme is research-oriented with specialisations in Materials Science and Molecular Chemistry. As a general principle, students learn methodological and analytical skills which allow them to develop suitable solution strategies for complex scientific problems. The programme includes interdisciplinary work, which is a key qualification for career development. In parallel to the research focuses of the Institute of Chemistry, the Master's programme offers the possibility of focusing on state-of-the-art synthesis, applications-oriented electrochemistry and the analysis of interfaces and surfaces. Furthermore, interested Master students can pursue more in-depth study of theoretical and technical aspects of Chemistry.

## Stay abroad

We recommend that you spend a semester abroad. The modular structure of the course makes it easy to integrate qualifications you gain during a semester abroad into your Master's degree.