



Facts and figures

Start: Winter semesters
Duration: 4 semesters
Degree: Master of Science
Language: English
Admission restricted

Application and enrolment



Admission requirements

General admission requirements:
www.uol.de/stud/619en

Language skills:
English first university degree or level B2

Application
Application deadline: 15 June

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 Applied Economics and Data Science
www.uol.de/en/fsb-wire
fsb.wire@uol.de

Period abroad
international.wire@uol.de

Student representatives for Business Administration, Economics and Law
www.uol.de/fsrwire (only in German)
fsr.wire@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

Department of Business Administration, Economics and Law
www.uol.de/en/school2/department-of-business-administration-economics-and-law

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

Applied Economics and Data Science

Master's degree



Applied Economics and Data Science (M. Sc.)

The design and evaluation of government interventions in markets to ensure their proper function or to achieve societal goals has always been a cornerstone of economics. A classic example, which is currently the subject of controversial public debate, is the use of market regulation for environmental protection. The evaluation of state interventions requires huge amounts of data and a combination of modern empirical methods, such as econometric estimates, simulation techniques and Big Data processing and analysis methods. The Master's degree programme in Applied Economics and Data Science, which is at the crossroads between economics and computer science, acknowledges the fact that empirical methods for analysing data in both disciplines are becoming increasingly similar. In the degree programme, students acquire in-depth knowledge of theoretical concepts and empirical findings on government regulation and in-depth methodological knowledge of modern analytical procedures for empirical data. This Master's degree programme is a research-oriented programme in which students are systematically introduced to the current state of research and in which they conduct a self-designed research project. After graduation, students are in a strong position to make their own contribution to research.

Career opportunities

Graduates of this degree programme are particularly suited for the following careers:

- Decision-makers in politics and administration
- Professionals in the private sector
- Employees at universities and research institutes
- Pursuing a Ph.D. program

More information on career opportunities can be found on the [web page](#) of the M.Sc. programme in Applied Economics and Data Science.

Structure and contents

MODULES IN ECONOMICS 36 CP		SEMESTER 1 / 2 / 3
Compulsory modules / 18 CP		
Advanced Microeconomics / 6 CP		
Industrial Organization / 6 CP		
Applied Economics / 6 CP		
Elective modules / 18 CP – for example		
Applied Environmental Economics / 6 CP		
International Trade, Production and Change / 6 CP		
Public Economics and Market Design / 6 CP		
MODULES IN EMPIRICAL METHODS 18 CP		
Compulsory modules / 6 CP		
Econometrics of Policy Evaluation / 6 CP		
Elective modules / 12 CP – for example		
Forecasting Methods / 6 CP		
Computational Economics / 6 CP		
MODULES IN DATA SCIENCE 18 CP		
Elective modules – for example		
Business Intelligence I / 6 CP		
Computational Intelligence I / 6 CP		
MODULES IN SPECIALISATION 18 CP		
Elective modules – for example		
Modules from the fields of Economics, Empirical Methods or Data Science / 6 CP each		
Operations Management / 6 CP		
Financial Risk Management / 6 CP		
COMPULSORY 30 CP		SEM. 4
Master's thesis module + Research Colloquium		
MASTER OF SCIENCE 120 CP		

Language skills

German language skills are not required for admission. In order to study this course at the University of Oldenburg, you need an adequate knowledge of English. Further information on language proficiency can be found in the admissions regulations.

Stay abroad

International studies and Erasmus exchange

This curriculum encourages international experiences by offering students the chance to spend a semester at a European or international partner university. With over 30 partner institutions worldwide, students have diverse options for studying abroad. Flexible study modules and learning agreements ensure that credits earned abroad are seamlessly recognized.

Students interested in studying abroad are encouraged to consult with the International Office in Oldenburg early in their academic journey.

