Facts and figures

Start: Winter and summer 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

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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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 analyzing 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.

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.

Structure and contents

| MODULES IN ECONOMICS | 36 CP |
| 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 |
| Applied Econometrics Using GIS Techniques / 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 |
| Master's thesis module |

| MASTER OF SCIENCE | 120 CP |