



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

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		
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	SEM. 4
Master's thesis module		
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.

