

## KEY FACTS



**Degree**  
Master of Science (M. Sc.)



**Contents**  
Studying & Applying Methods as well as Tools of Modern Data Analytics, Econometrics, and (Digital) Entrepreneurship and Strategy to Solve Real-world Problems in Business and Economics



**Language**  
English



**Duration**  
4 semesters, full-time



**Credits**  
120 ECTS



**International**  
1 semester, summer school (optional)



UNIVERSITY  
OF COLOGNE

FACULTY OF  
MANAGEMENT, ECONOMICS  
AND SOCIAL SCIENCE

## APPLICATION PROCESS

- Start: Winter semester
- Application deadline: 15th June
- Applicants with a German bachelor degree apply via KLIPS
- Applicants with a non-German bachelor degree apply with their VPD document issued by uni-assist via KLIPS

## REQUIREMENTS AND SELECTION PROCEDURE

A Bachelor degree or equivalent (worth at least 180 ECTS credits) in Business Administration or Economics, strong proficiency in quantitative methods and an overall grade point average of at least 2.7 (German grade). Applicants must meet the following requirements:

- At least 78 ECTS credits in the field of Business Administration and Economics
  - of this at least 48 ECTS credits in Business Administration
  - of this at least 18 ECTS credits in Economics
- At least 15 ECTS credits in Statistics and/or Mathematics
- English language skills level B2 CEFR
- German language skills level C1 CEFR

The successful completion of an admission test (TM-WISO/GMAT) is highly recommended. The Admissions Board will communicate its decision by the end of July. Enrolment usually takes place in August.

## CONTACT

WiSo Student Service Point

Telefon: +49 (0) 221/470-8818 :

[wiso-studentservice.uni-koeln.de](mailto:wiso-studentservice.uni-koeln.de)



# MASTER OF SCIENCE BUSINESS ANALYTICS AND ECONOMETRICS

From data to insights

## THIS PROGRAMME PROVIDES YOU WITH:

- Fundamental analytics and technology skills.
- Groundbreaking knowledge and the mindset for a successful career in data analytics for business and economics.
- Vital skills for starting and managing a business in the digital age and resolving complex issues in today's organisations.
- An ability to gather, manage and analyse (big) data as well as to visualise, present and use insights gained from the data.

Data analytics, digital innovation and big data are crucial developments for the upcoming challenges in all business and economic areas. This programme offers a unique blend of traditional analytics (e.g. statistics, econometrics, optimisation, simulation) and modern analytical approaches (e.g. machine learning and artificial intelligence using R and Python) and merges these approaches with the teaching of groundbreaking knowledge in the areas of economics, management, and entrepreneurship.

## THIS PROGRAMME IS RIGHT FOR YOU IF YOU:

- have successfully completed a bachelor's degree in economics, mathematics/statistics, computer science, physics, information systems or business administration with an international background.
- possess an affinity for mathematics, statistics and digital technologies as well as the ability to use your skills in these areas to solve real-world problems.
- took a liking to an entrepreneurial mindset.

## Richard

Student at the WiSo-Faculty

"What excites me about my studies is that you can find a wide range of opportunities for every pursued career. By combining current methods from data science, statistics and machine learning with business and economics concepts, you are ideally prepared for both a career in industry and academia."