



# MSc Economics and Data Analytics

One Year Full Time | Two Years Part Time

Course codes: W564 | W565

## Introduction

The MSc Economics and Data Analytics is a programme designed for those who want to gain some of the most in-demand skills for today's labour market. This programme, jointly offered by the UCD School of Economics and the UCD School of Mathematics and Statistics, combines knowledge of human behavior and decision-making from economics with the latest data analytics techniques, such as Data Programming, Machine Learning, and Bayesian Analysis. It is a great option for anyone interested in studying how data can be used to understand the economy and drive business decisions. Students can choose to study full-time or part-time and will receive a strong foundation in both economics and data analytics through core modules. Students will also have the opportunity to put their skills into practice through talks with industry professionals, group projects, and presentations. In the spring trimester, students can choose from a variety of elective modules in data analytics, econometrics, and economics.

Graduates of this program will be well-prepared for exciting career opportunities in tech, consulting, NGOs or government, and even doctoral studies in economics.

## Course Highlights

The MSc Economics and Data Analytics is a joint programme from UCD's School of Economics and School of Mathematics and Statistics. Students will learn from top economists and statisticians, in small classes, and get hands-on experience through workshops and projects. Students enjoy great flexibility through the mix of in-person and online delivery (economics modules are taught in person; data analytics modules are taught online).

## Course Content and Structure

90 CREDITS  
Taught Masters

=

60 CREDITS  
Taught Modules

+

30 CREDITS  
Dissertation

or

30 CREDITS  
Internship

### Autumn Trimester

#### 5 Core modules:

- Microeconomics
- Macroeconomics
- Quant Fndn & Research Skills
- Econometrics
- Data Programming with R

### Spring Trimester

#### Core module: Research and Career Skills

A minimum of 1 module from each block, to total 25 credits

#### Block I: Economics

- Advanced Macroeconomics
- Advanced Microeconomics
- Health and Welfare Economics
- Energy Economics and Policy
- Economics of Competition Policy
- Aviation Economics
- Decision Theory
- Behavioural E'mics:Policy App
- Global Economic History
- Banking & Financial Stability
- Eval Methods for Health Econ
- Soc Protect & Labor in Dev Co

#### Block II: Data Analytics and Econometrics

- Adv Metrics: Microeconometrics
- Adv Metrics: Time Series
- Causal Inference & Policy Eval
- Intro to RD & SQLProgrammiing
- Geostatistics and Prog for GI
- Quantitative Text Analysis
- Inference for Data Analytics(OL)
- Statistical Machine Lrn (OL)
- Bayesian Analysis (online)

In the Summer trimester, you will complete either a supervised research thesis or an internship.

## Why study at UCD?



### Graduate Education

13,000 graduate students; 15% graduate research, structured PhD's.



### Graduate Employability

Ranked no. 1 in Ireland in QS Graduate Employability ranking



### Global Careers

Dedicated careers support; 2 year stayback visa to work in Ireland



### Global Community

10,000 international students and 300,000 alumni network across 189 countries



### Global Profile

UCD is ranked in the top 1% of higher education institutions worldwide



### Sustainability

UCD is ranked number one in Ireland and 50th in the world for Sustainability



## Career Opportunities

This programme prepares graduates for a wide range of in-demand career paths in the private and public sectors. Data analytics is at the forefront of the modern economy, and by completing the MSc Economics and Data Analytics, graduates will be equipped with the skills and knowledge to succeed in the competitive job market now and into the future. UCD graduates from related Economics masters and the MSc Data Analytics, have gone on to pursue successful careers in industries like technology, finance, and consulting. Many others have secured positions in public institutions like central banks, government departments, and research institutes, or continued their studies with PhD programmes in economics or statistics.

## Applicant Profile

- A primary degree with a minimum of an upper second class honours or international equivalent in Economics or a degree in which Economics is a major component.
- We also consider applicants with a minimum of upper second class honours in a cognate area with a strong quantitative component (e.g. business, finance, engineering).
- We will also admit applicants with a Higher Diploma in Economics with a minimum of an upper second class honours.
- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

## EU Enquiries

UCD School of Economics  
☎ +353 1 716 8272 ✉ [economics@ucd.ie](mailto:economics@ucd.ie)  
🌐 [www.ucd.ie/economics](http://www.ucd.ie/economics)

## About the School

UCD School of Economics is Ireland's leading economics department. Our staff are experts with international reputations in a wide range of topics such as macroeconomics, econometrics, applied microeconomics, behavioural economics, health economics, international trade and economic history. School members play a significant role in debating economic policy issues and in contributing to the formulation of economic policy.

UCD School of Mathematics and Statistics is Ireland's highest ranking School of Mathematics and Statistics. The School is the largest of its kind in Ireland and offers the greatest choice of programmes at undergraduate, masters and PhD level, reflecting the ubiquity of the mathematical sciences in the modern world.

## Fees and Scholarships

Tuition fee information is available on [www.ucd.ie/fees](http://www.ucd.ie/fees). Please note that UCD offers a number of graduate scholarships for full-time, self-funding international students, holding an offer of a place on a UCD masters programme. Please see [www.ucd.ie/global/scholarships](http://www.ucd.ie/global/scholarships) for further information.

## Related Masters

- MSc Applied Economics
- MSc Behavioural Economics
- MSc Data Analytics

## Non-EU Enquiries

*Visas / Funding / Scholarships / Accommodation*  
✉ [internationalenquiries@ucd.ie](mailto:internationalenquiries@ucd.ie)  
🌐 [www.ucd.ie/global](http://www.ucd.ie/global)

## Graduate Profiles



**Beyza Kordan**  
Graduate

It was a privilege to complete my MSc in Economics and Data Analytics at UCD, a programme that not only strengthened my theoretical knowledge but also equipped me with the technical skills essential for today's data-driven world. I particularly valued courses such as R/SQL Programming, Data Programming with R, Data Analysis with Python, and Inference for Data Analytics. These modules deepened my understanding of data and were instrumental in helping me secure my current role as an Analyst at Meta in Dublin. One of the highlights of the programme was its flexibility. I had the opportunity to explore different areas of interest and chose to write my thesis in Health Economics—an area I became deeply passionate about during my studies.

The programme consistently provided excellent support through knowledgeable and accessible faculty, and created a vibrant learning environment filled with motivated, diverse classmates.

I would strongly recommend this MSc to anyone eager to build strong analytical capabilities grounded in economic principles and to open exciting new doors in their career.

## Apply Now

For further information on entry requirements, fees, scholarships, application process:

[www.ucd.ie/apply](http://www.ucd.ie/apply)

