



# MSc in Quantitative Economics

(One Year Full-Time)



## Introduction

This course provides high quality quantitative training in economics, a focus on advanced research methods and a supervised research thesis. Students get a rigorous grounding in using mathematical and statistical methods to derive, test and apply formal economic models. In addition to core modules in microeconomics, macroeconomics and econometrics, students have the option of completing a two-term specialisation in either Statistics or one of Behavioural Economics, Law and Economics

of Competition, Environmental and Energy Economics or Development Economics.

The course prepares students for PhD-level study in economics or obtaining employment as a professional economist in jobs requiring the application of analytical methods to economic problems. Students have the ability to switch after the first trimester to our MSc in Applied Economics, which includes the option of a summer internship.

## Programme Highlight

This MSc programme in Quantitative Economics features small group teaching from leading economists and a supportive environment. Students get to know our staff via participation in small classes and seminars and through direct supervision

Masters students are an integral part of our School community, attending research seminars and receiving a wide range of supports to help them prepare for the research thesis element of their degree.

## Programme Content and Structure

90 credits  
Taught Masters

60 credits  
Taught Modules

30 credits  
Dissertation

### Autumn Trimester

In the Autumn trimester, you will undertake a two-week foundational course in mathematics and statistics. You will also take the following modules:

- Microeconomics
- Macroeconomics
- Econometrics
- Research and Career Skills I

And a choice of one from:

- Data programming with R
- Behavioural Economics
- Environmental Economics
- EU Competition Law
- Development Economics

### Spring Trimester

In the Spring trimester, you take the following core modules:

- Advanced Microeconomics
- Advanced Macroeconomics
- One of :
  - Advanced Econometrics: Micro
  - Advanced Econometrics: Time Series
- Research and Career Skills II

You will also take an additional module from the following indicative list of modules:

- Behavioural Economics: Policy Applications
- Decision Theory
- Economics of Competition Policy
- Health and Welfare Economics
- Energy Economics and Policy
- Aviation Economics
- International Trade

Alternatively, students can take an advanced module from the School of Mathematics and Statistics.

### Summer Trimester

In the Summer trimester, you will do a supervised research thesis.

## Why study at UCD?



### Graduate Education

12,000 graduate students; 17% graduate research students; structured PhDs



### 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

8,500 international students and 300,000 alumni network across 165 countries



### Global Profile

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



### Welcoming Campus

Modern parkland campus with 24 hr security. Wide range of facilities, clubs, societies and supports



## Career Opportunities

Many graduates of our masters programmes have gone on to complete PhDs in economics and pursue successful careers as academic or research economists.

Many others have moved directly to employment in central banks, think-tanks, government departments, regulatory agencies, financial sector institutions and consultancy firms.

## 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.

## Graduate Profiles



**Annabell Schneider**

The UCD was the perfect place to pursue my MSc in Quantitative Economics as it is Ireland's largest university and has an excellent reputation throughout Europe and the academic world. The university as well as the programme management provided everything necessary to successfully prepare for the start of the studies which especially enabled international students to quickly get familiar with the new academic environment. Further support can be obtained by contacting the Student Help Desk or by directly approaching organisers and professors.

The MSc in Quantitative Economics offers the perfect combination of theory and practice. Students gain a more detailed understanding of economic fundamentals through core modules such as Macroeconomics and Microeconomics. In addition, students can choose from a variety of elective modules that provide them with important tools which train both the use of statistical methods as well as programming languages. During the MSc programme, I really enjoyed analysing data and thus providing answers to economic questions which not only helped me when I was working on my master's thesis, but also in my current job.

Today, I work as a credit risk analyst at one of the largest banks in Germany, helping to analyse data and develop new metrics to monitor the bank's credit risk. The MSc in Quantitative Economics is perfect for everyone who seeks to expand theoretical knowledge as well as to deal with economic issues in practice.

## Applicant Profile

- A primary degree with a minimum of an upper second class honours or international equivalent in Economics or in 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 which has a strong quantitative component.
- 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.

## 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
- MA Public Policy

### CONTACT US

#### EU Students

t: 353 1 716 8272

e: [economics@ucd.ie](mailto:economics@ucd.ie)

w: [www.ucd.ie/economics](http://www.ucd.ie/economics)

#### International Students

e: [internationalenquiries@ucd.ie](mailto:internationalenquiries@ucd.ie)

w: [www.ucd.ie/global](http://www.ucd.ie/global)

### APPLY NOW

This programme receives significant interest so please apply early online at

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