



University College Dublin  
Ireland's Global University



## MSc Actuarial Science (1 Year Full Time)

The MSc in Actuarial Science is designed for students from quantitative disciplines who ultimately wish to train as an actuary upon completion of the programme. The MSc can help fast track your career as an actuary by supporting you through the initial examinations of the Institute & Faculty of Actuaries, UK and is fully accredited by the Institute & Faculty of Actuaries, UK.

The programme provides a solid foundation in mathematics, statistics, economics and finance for future actuarial studies. You will also have the opportunity to undertake a dissertation in a

topical area of actuarial science under the supervision of a member of the UCD School of Mathematics and Statistics.

The dissertation will allow you to develop an understanding of how the theory and principles covered in the Core Technical subjects are applied in practice.

The programme is suitable for students with no prior exemptions and for students who wish to add to any exemptions they already have. In addition you may also be able to take advanced courses in finance at the world class UCD Michael Smurfit Graduate School of Business.

### Top school among Irish universities

UCD offers the widest range of Actuarial Science programmes in Ireland and has established a reputation for providing high quality graduates for the actuarial and finance industries in Ireland and internationally. The MSc Actuarial Science is accredited by the Institute & Faculty of Actuaries, UK and is delivered by qualified actuaries and other academic experts. The MSc Actuarial Science won the Science Postgraduate Course of the Year at the gradireland Higher Education Awards in 2016.

## Why study at UCD?



### Tradition

Established 1854, with 160 years of teaching & research excellence



### Global profile

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



### Global community

Over 6,000 international students from over 120 countries study at UCD



### Global careers

Degrees with high employability; dedicated careers support; 1 year stay-back visa



### Safety

Modern parkland campus with 24 hour security, minutes from Dublin city centre

## Course Content and Structure

90 credits  
taught masters

60/70 credits  
taught modules

20/30 credits  
research project

The MSc in Actuarial Science covers the Core Technical subjects 1 to 8 (CT 1-8) and Core Applications subject 1 (CA1) of the examinations of the Institute and Faculty of Actuaries, UK.

The Core Technical subjects are:

- Financial Mathematics (CT1)
- Finance & Financial Reporting (CT2)
- Probability and Mathematical Statistics (CT3)
- Models (CT4)
- Contingencies (CT5)
- Statistical Methods (CT6)
- Business Economics (CT7)
- Financial Economics (CT8)

Depending on your subject choices in semesters 1 and 2 you may also undertake advanced modules in finance at the UCD Michael Smurfit Graduate School of Business.

Module topics may include regulation, corporate governance, ethics in finance, asset valuation, and financial management.

There will be opportunities for some students to complete their thesis as a paid research placement with an actuarial company.

Modules and topics shown are subject to change and are not guaranteed by UCD.

## Career Opportunities

As a graduate of the MSc in Actuarial Science you can look forward to a career ranging from the traditional areas of insurance and pension consultancy to the rapidly expanding areas of investment and risk management. Throughout your actuarial career you can rely on the support and guidance of the actuarial profession, and upon qualification you can expect a rewarding career that will continue to offer opportunities for further development.

The actuarial profession is a global profession with actuaries in demand in Europe, America, Asia and Australia.



## Apply Now

This programme receives significant interest so please apply early online at [www.ucd.ie/apply](http://www.ucd.ie/apply)

## Entry Requirements

- This programme is intended for applicants with a degree in a quantitative area such as mathematics, statistics, computer science, engineering or economics and/or finance. An upper second class honours or international equivalent is required.
- We will, however, consider applications from prospective students who do not meet these entry requirements provided they can demonstrate an ability and commitment to study actuarial science.
- 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.

## Graduate Profile

**Troy Tyson, Trainee actuary in the Product Management department of New Ireland Assurance**

This course gave me the opportunity to acquire exemptions from the professional examinations of the Institute and Faculty of Actuaries, which are mandatory to become a fully qualified actuary. The research placement portion of the year for me was extremely beneficial with regards to my career as an actuary. It gave me an insight into the typical day of an actuary working

in the life insurance sector, and also allowed me to show my enthusiasm toward the profession and my willingness to work hard to achieve my goals. I would highly recommend the UCD MSc in Actuarial Science to those in search of a challenging yet rewarding year and looking for the perfect launching pad to their career as an actuary.

## EU Enquiries

Programme Administrator ✉ : [pgstudies@maths.ucd.ie](mailto:pgstudies@maths.ucd.ie)  
☎ : +353 1 716 2452 [www.ucd.ie/courses/msc-actuarial-science](http://www.ucd.ie/courses/msc-actuarial-science)

UCD School of Mathematics and Statistics, University College Dublin, Belfield, Dublin 4.

**Non-EU Enquiries** ✉ : [internationaladmissions@ucd.ie](mailto:internationaladmissions@ucd.ie)  
[www.ucd.ie/international](http://www.ucd.ie/international)