



University College Dublin  
Ireland's Global University

## Graduate Diploma Actuarial Science (Nine Months Full Time)

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

The programme provides a solid foundation in mathematics, statistics, economics and finance for future actuarial studies. The Graduate Diploma in Actuarial Science offers potential exemptions from the Core Technical subjects 1 to 8 (CT1-8) of the examinations of the Institute & Faculty of Actuaries (UK). If you have prior actuarial exemptions you may choose to

study all or part of the syllabus for the Core Applications 1 (CA1) subject of the examination of the Institute and Faculty of Actuaries. The programme is therefore suitable for students with no prior exemptions and for students who wish to add to any exemptions they already have. On completing this programme, you will be able to apply a variety of complex statistical and financial models in appropriate settings, model cash flows and summarise economic activity through the use of a variety of metrics, quantify risks associated with complex financial contracts and understand how to mitigate them and calculate the value of complex financial contracts, allowing for mortality and morbidity.

### Key Fact

UCD established degrees in actuarial science over 20 years ago and has by far the greatest experience of all Irish universities in delivering high calibre graduates to the actuarial profession. The UCD School of Mathematical Sciences, to which the discipline of Statistics and Actuarial Science belongs, has the highest global ranking of all such University Schools in Ireland.

## 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

60 credits  
graduate diploma

60 credits  
taught credits

**There is no option to complete the Graduate Diploma on a part-time basis. The Graduate Diploma 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). Depending on your background and subject to the approval of the programme director, you may select between five and seven subjects to study.**

**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)



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

## Career Opportunities

Upon successfully completing the Graduate Diploma 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. Successful graduates can expect early responsibility in their chosen career and the opportunity to work in a variety of challenging roles. 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.

Prospective employers include Accenture, AIB, AIG, AllState, Anglo-Irish, Bank of Ireland, Barclays, Canada Life, Deloitte, Ernst and Young, Hibernian, ING, Irish Life, Kiln, KPMG, Lloyds, New Ireland, Paddy Power, Permanent TSB, Santander, SIG, Swiss Re, Towers-Watson and Zurich.



## Facilities and Resources

- Students have access to a full Bloomberg terminal as part of their studies in Financial Economics.
- Students are given the opportunity to acquire official certification at Expert level in Microsoft Excel.

## 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

Alex Clarke, Actuarial Trainee,  
Lloyd's, London

"I chose to study the Higher Diploma in Actuarial Science in UCD because I felt that it would give me an edge when applying for actuarial jobs, rather than having only my mathematics undergraduate degree. The agreement between The Institute and Faculty of Actuaries and UCD

means that a diligent student has an excellent opportunity to get the first series of Core Technical (CT) qualifying exam under their belt in just one year. In practice this usually translates to a higher starting salary when joining the workforce. The quality of the education was excellent, arising from the level of experience and dedication of the lecturers. Within 3 weeks of completing my final exam I had 4 job offers and chose what I felt was the most interesting area for me."

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## Fees

Tuition fee information is available on [www.ucd.ie/fees](http://www.ucd.ie/fees)

## Accommodation

UCD has accommodation for over 2,500 students across five locations. Places are limited and more information is available at [www.ucd.ie/residences/](http://www.ucd.ie/residences/)

For information and advice on living off campus, please contact the UCD Residences Off-Campus Office or the UCD Student Union Accommodation Services. Please visit [www.ucd.ie/residences/accommodation-booking-support/](http://www.ucd.ie/residences/accommodation-booking-support/) for further details.

## Related Masters Programmes of Interest

- MSc Actuarial Science
- MSc Statistics
- MSc Data Analytics (online)

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UCD School of Mathematical Sciences, 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)