University College Dublin
Ireland's Global University

MA Statistics
(16 Months Full Time)

Ireland is home to over 250 global financial institutions. This degree will prepare students for a career in industry, government, IT, economics and finance.

Currently, students without sufficient statistical background knowledge can attain masters level proficiency by first completing the Higher Diploma in Statistics followed by the MSc in Statistics, which takes two years. The MA in Statistics provides an alternative pathway in 16 months and there is no comparable programme in Ireland or the UK.

This programme is intended for students with a numerate background but who may have insufficient background knowledge to gain entry to the MSc programme.
On successful completion of the programme you will be able to demonstrate in-depth understanding of statistical concepts, apply basic statistical reasoning, techniques and models in the analysis of real data, employ technical computing skills, learn from experiences gained in different contexts, and apply knowledge across discipline boundaries to solve problems.

Key Fact

The UCD MA in Statistics is fully accredited by the Royal Statistical Society. The UCD School of Mathematics and Statistics group was ranked in the top 200 in the world in the QS world university ranking, and is the only statistics group in Ireland to appear in this ranking.
The UCD School of Mathematics and Statistics is a dynamic, multidisciplinary school spanning the disciplines of Mathematics, Applied and Computational Mathematics, Statistics and Actuarial Science. The School engages in research of international renown and teaches students across all disciplines.

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

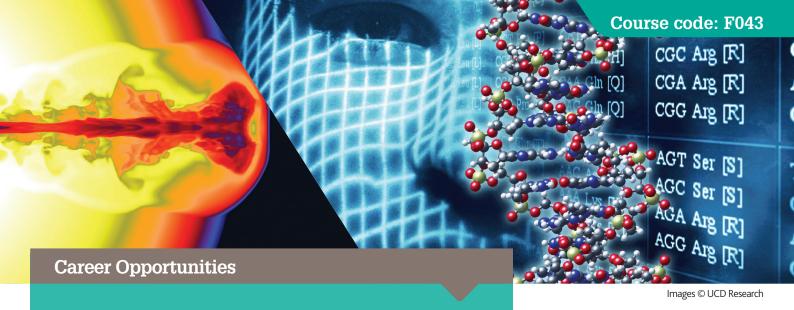| **120 credits** taught masters	**90 credits** taught modules	**30 credits** dissertation or data analytics project

The MA in Statistics is of 16 months' durations (four semesters) and will bring students to the same level as the MSc degree in Statistics.
Modules offered change from year to year and the list includes:

- Linear Models
- Data Mining
- Time Series
- Multivariate Analysis
- Experimental Design
- Mathematical Statistics
- Monte Carlo inference
- Actuarial Statistics
- Survival Analysis
- Stochastic models
- Bayesian analysis
- Data Programming with R

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

Images © UCD Research

Career Opportunities

Career prospects on completion of the MA in Statistics is equivalent to that of the MSc in Statistics and graduates pursue careers in the pharmaceutical industry (e.g., Elan, Quintiles), banking, finance and risk management. There is increased demand for statisticians from the IT sector (e.g., Google, Intel, data mining companies). In addition, many government departments employ statisticians. Some past students embarked on a career in academia by proceeding to study for a PhD in Statistics. Former MSc and MA students are currently working for such firms as Google, Western Union, AIB, Norbrook, Ernst & Young, O2 and SPSS, while others chose to do a PhD. Demand for graduates continues to be strong both in Ireland and abroad.

Fees and Scholarships

Tuition fee information is available on www.ucd.ie/fees. Please note that UCD offers a number of postgraduate scholarships for full-time, self-funding international students, holding an offer of a place on masters programmes. Please visit www.ucd.ie/international/scholarships for further information.

Apply Now

This programme receives significant interest so please apply early online at www.ucd.ie/apply

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/
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/ for further details.

Entry Requirements

- This programme is intended for applicants with a degree in mathematics, economics, finance, certain engineering degrees or similar quantitative disciplines where statistics has formed some component of the degree. An upper second class honours or international equivalent is required.
- Applicants who do not meet these requirements but can demonstrate an interest and ability in statistics may be considered.
- Alternatively students may qualify for enrolment to the Higher Diploma Statistics from which they can gain entry to the one-year MSc in Statistics.
- 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.

Related Masters Programmes of Interest

- MSc Statistics
- Higher Diploma Statistics
- MSc Actuarial Science
- MSc Data Analytics (Online)

Staff Profile

Associate Professor Andrew Parnell, UCD School of Mathematics and Statistics, Complex and Adaptive Systems Laboratory

My main statistical interest is in Bayesian stochastic processes and computational statistics. I am particularly interested in Gaussian processes, stochastic volatility models, compositional data analysis and monotonic processes. I have applied such models to a variety of environmental, biomedical and ecological science problems relating to: spatio-temporal climate reconstruction, stable isotope mixing models, the development of biomarker panels for prostate cancer, sea-level change and radiocarbon dating.

EU Enquiries Programme Administrator
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www.ucd.ie/international

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