Statistics MSc /

Statistical science skills are powerful tools that play a valuable role in all pure and applied sciences as well as in finance, law and marketing. The quantitative skills training provided by this MSc can lead to new and exciting opportunities in industry, medicine, government, commerce or research.

Degree summary

The programme takes a broad-based approach to statistics, providing up-to-date training in the major applications and an excellent balance between theory and application. It covers modern ideas in statistics including applied Bayesian methods, generalised linear modelling and object-oriented statistical computing, together with a grounding in traditional statistical theory and methods.

One of the strengths of UCL Statistical Science is the breadth of expertise on offer; the research interests of staff span the full range from foundations to applications, and make important original contributions to the development of statistical science.

London provides an excellent environment in which to study statistical science, being the home of the Royal Statistical Society as well as a base for a large community of statisticians, both academic and non-academic.

The programme is delivered through a combination of lectures, tutorials and classes, some of which are dedicated to practical work. External organisations deliver technical lectures and seminars where possible. Assessment is through written examination and coursework. The research project is assessed through the dissertation and a 15-minute presentation.

Workshops running during the teaching terms provide preparation for this project and cover the communication of statistics e.g. the presentation of statistical graphs and tables.

Degree structure

Mode: Full-time: 1 year; Part-time: 2 years
Location: London, Bloomsbury

Studying on a part-time basis involves spreading the taught modules over two years, but with the same teaching times as for full-time students (i.e. Monday-Friday during the daytime).

Students undertake modules to the value of 180 credits. The programme consists of a foundation module, four core modules (60 credits) four optional modules (60 credits) and a research dissertation (60 credits).

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<th>CORE MODULES</th>
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<tbody>
<tr>
<td>Foundation Course (not credit bearing)</td>
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<tr>
<td>Statistical Models and Data Analysis</td>
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<td>Statistical Design of Investigations</td>
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<td>Statistical Computing</td>
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<td>Applied Bayesian Methods</td>
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<th>OPTIONAL MODULES</th>
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<tr>
<td>Decision and Risk</td>
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<td>Stochastic Systems</td>
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<td>Forecasting</td>
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<td>Statistical Inference</td>
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<td>Medical Statistics I</td>
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<td>Medical Statistics II</td>
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<td>Stochastic Methods in Finance I</td>
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<td>Stochastic Methods in Finance II</td>
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<td>Factorial Experimentation</td>
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<td>Selected Topics in Statistics</td>
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<td>Bayesian Methods in Health Economics</td>
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<td>Quantitative Modelling of Operational Risk and Insurance Analytics</td>
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<th>DISSERTATION/REPORT</th>
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<td>All MSc students undertake an independent research project, culminating in a dissertation of approximately 10,000–12,000 words.</td>
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Your career

Graduates typically enter professional employment across a broad range of industry sectors or pursue further academic study. Recent career destinations* include:

- Data Analyst, Bupa
- Quantitative Risk Analyst, Santander
- PhD in Statistics, UCL
- Management Associate, HSBC
- Statistical Analyst, Nielsen

Employability

The Statistics MSc provides skills that are currently highly sought after. Graduates receive advanced training in methods and computational tools for data analysis that companies and research organisations value. For instance, the new directives and laws for risk assessments in the banking and insurance industries, as well as the healthcare sector, require statistical experts trained at graduate level. The large amount of data processing in various industries (known as "data deluge") also necessitates cutting-edge knowledge in statistics. As a result, our recent graduates have been offered positions as research analysts or consultants, and job opportunities in these areas are increasing.

* Careers data is taken from the 'Destinations of Leavers from Higher Education' survey undertaken by HESA looking at the destinations of UK and EU students in the 2013-2015 graduating cohorts six months after graduation.
Entry requirements

A minimum of an upper second-class Bachelor’s degree in a quantitative discipline from a UK university or an overseas qualification of an equivalent standard. Knowledge of mathematical methods and linear algebra at university level and familiarity with introductory probability and statistics is required. Relevant professional experience will also be taken into consideration.

English language proficiency level

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at:
www.ucl.ac.uk/graduate/english-requirements

Your application

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

// why you want to study Statistics at graduate level
// why you want to study Statistics at UCL
// what particularly attracts you to this programme
// how your academic background meets the demands of this programme
// where you would like to go professionally with your degree

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

Application fee: There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. More details about the application fee can be found at
www.ucl.ac.uk/prospective-students/graduate/taught/application.

FEES AND FUNDING 2018/19 ENTRY

// UK: £10,140 (FT), £5,120 (PT)
// EU: £10,140 (FT), £5,120 (PT)
// Overseas: £24,860 (FT), £12,380 (PT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Current Students website.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE

All applicants: 15 March 2018

Details on how to apply are available on the website at:
www.ucl.ac.uk/graduate/apply

CONTACT

Dr Russell Evans, Admissions Administrator
Email: stats.pgta-admissions@ucl.ac.uk
Telephone: +44 (0)20 7679 8311

EU referendum

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to
www.ucl.ac.uk/eu-referendum