Statistical Science (International Programme)
MSci /

This four-year programme provides an advanced education in statistics together with experience of education in a different cultural and/or linguistic setting, which will broaden your horizons and prepare you for a variety of careers that have a special emphasis on international expertise.

Key information

Programme starts
September 2019

Location
London, Bloomsbury

Degree benefits

// The year abroad offers the opportunity to enhance your understanding of another culture and potentially develop your communication skills in another language.

// The department offers a friendly and supportive atmosphere, where small-group teaching and personal attention are available for all students.

// The programme is accredited by the Royal Statistical Society (RSS) enabling you to be granted Graduate Statistician (GradStat) status if you achieve second-class honours or above and choose at least 50% of your year two and four modules in statistics (see accreditation note).

// Teaching is enhanced by the varied research interests of our academic staff; from the foundations of the subject to applications of statistics in science, medicine, industry, economics and finance.

Accreditation

This programme is accredited by the Royal Statistical Society. On application to the Royal Statistical Society, graduates are awarded Graduate Statistician (GradStat) status, providing formal recognition of a member’s statistical qualifications, subject to achieving second-class honours or above, and at least 50% of your year two and four modules are in statistics. Please note: current accreditation extends until 2017/18. We are applying to retain it for eligible students who enrol from 2018/19 onwards.

Degree structure

In each year of your degree you will take a number of individual modules, normally valued at 15 or 30 credits, adding up to a total of 120 credits for the year. Modules are assessed in the academic year in which they are taken. The balance of compulsory and optional modules varies from programme to programme and year to year. A 30-credit module is considered equivalent to 15 credits in the European Credit Transfer System (ECTS).

In this four-year programme, you will spend the first two years at UCL following the structure of the Statistics BSc, the Statistics, Economics and Finance (SEF) BSc, or the Statistics, Economics and a Language (SEL) BSc.

The third year is spent at a leading university abroad. Currently, study in Bologna, Munich, Perth, Purdue, Singapore, Toronto and UCLA is available. The fourth year is spent at UCL and consists of advanced modules and project work allowing you to deepen your understanding of the subject.

YEAR ONE

Core or compulsory module(s)

// Introduction to Probability and Statistics
Introduction to Practical Statistics
Further Probability and Statistics
Mathematics for Students of Economics, Statistics and Related Disciplines I
Mathematics for Students of Economics, Statistics and Related Disciplines II

// Note: the modules above are for the Statistics stream. Please see relevant degree entries for modules studied in years one and two on the following streams: Statistics, Economics and Finance; Statistics, Economics and a Language.

Optional modules

// Any additional modules can be chosen from a wide range of optional modules, depending on the stream you choose.

YEAR TWO

Core or compulsory module(s)

// Linear Models and the Analysis of Variance
Mathematics for Students of Economics, Statistics and Related Disciplines III
Probability and Inference
Introduction to Applied Probability
Computing for Practical Statistics

// Note: the modules above are for the Statistics stream. Please see relevant degree entries for modules studied in years one and two on the following streams: Statistics, Economics and Finance; Statistics, Economics and a Language.

Optional modules

// You will select your remaining modules from a wide range of optional modules. UCL Statistical Science options may include Optimisation Algorithms in Operational Research, and Social Statistics. Modules from other departments may also be possible.

YEAR THREE

Year abroad

// You will spend year three studying at a leading university abroad.
Data 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.

FINAL YEAR

Core or compulsory module(s)

- Statistical Inference
- Statistical Science Project

Optional modules

- You will select 2.5 credits from a wide range of Master's-level options. UCL Statistical Science options may include:
  - Applied Bayesian Methods
  - Decision and Risk
  - Factorial Experimentation
  - Forecasting
  - Medical Statistics I
  - Medical Statistics II
  - Selected Topics in Statistics
  - Statistical Computing
  - Statistical Design of Investigations
  - Statistical Models and Data Analysis
  - Stochastic Methods in Finance I
  - Stochastic Methods in Finance II
  - Stochastic Systems

Your learning

We employ a variety of teaching methods which include lectures, small-group tutorials, problem classes and computer workshops and e-learning. Lecturers have regular 'office hours' during which you are welcome to come and ask questions about the programme material.

Assessment

Most modules are examined at the end of the academic year in which they are taken using a combination of end-of-year examinations and in-course assessment. Prizes may be awarded to the most outstanding students in the first, second and third year.

Your career

Together with subject-specific knowledge, the programme is designed to equip you with skills valued by employers including: advanced numeracy and quantitative skills, analytical and problem-solving skills, and computing skills. You will also develop your research skills, communication skills and word processing skills through statistical project work.

The demand for graduates with training in statistical science is now a permanent feature in both advanced and developing countries for jobs in finance, commerce, industry, research, education and government. Graduates from this department are well-represented in all these fields, in this country and overseas, and recent graduates have continued to be successful in obtaining a wide variety of jobs.

First career destinations of recent graduates (2013-2015) of this programme at UCL include:

- Full-time student, MSc in Machine Learning at UCL
- Risk Modelling Analyst, Barclays
- Analyst, Deloitte

Your application

Application for admission should be made through UCAS (the Universities and Colleges Admissions Service). Applicants currently at school or college will be provided with advice on the process; however, applicants who have left school or who are based outside the United Kingdom may obtain information directly from UCAS.

When we receive your application we will consider your academic record, your predicted grades, your personal statement and your reference. Your application should demonstrate high academic ability, particularly in mathematics, an informed interest in all components of your chosen degree programme and good communication skills.

We will decide whether to invite you to an applicant open day on the basis of our assessment of your application. Your visit will include an opportunity to meet staff and current undergraduates, a tour of UCL, a taster lecture and introductory talks about the department and degree programmes.
Entry requirements

A LEVELS

Standard Offer: A*A. A* in Mathematics required. Further Mathematics preferred. If you are studying both then the A* can be in either subject.

Contextual Offer: A*BB. A* in Mathematics required. Further Mathematics preferred. If you are studying both then the A* can be in either subject.

GCSE

English Language and Mathematics at grade C or 5. For UK-based students, a grade C or 5 or equivalent in a foreign language (other than Ancient Greek, Biblical Hebrew or Latin) is required. UCL provides opportunities to meet the foreign language requirement following enrolment, further details at: www.ucl.ac.uk/ug-reqs

IB DIPLOMA

Standard Offer: 39. A score of 19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.

Contextual Offer: 36. A score of 17 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.

CONTEXTUAL OFFERS – ACCESS UCL SCHEME

As part of our commitment to increasing participation from underrepresented groups, students may be eligible for a contextual offer as part of the Access UCL scheme. For more information see www.ucl.ac.uk/prospectus

OTHER QUALIFICATIONS

UCL considers a wide range of UK and international qualifications for entry into its undergraduate programmes. Full details are given at: www.ucl.ac.uk/otherquals

UNDERGRADUATE PREPARATORY CERTIFICATES (International foundation courses)

UCL Undergraduate Preparatory Certificates (UPCs) are intensive one-year foundation courses for international students of high academic potential who are aiming to gain access to undergraduate degree programmes at UCL and other top UK universities.

Typical UPC students will be high achievers in a 12-year school system which does not meet the standard required for direct entry to UCL.

For more information see: www.ucl.ac.uk/upc.

TUITION FEES

The fees indicated are for undergraduate entry in the 2019/20 academic year. The UK/EU fees shown are for the first year of the programme at UCL only. Fees for future years may be subject to an inflationary increase. The Overseas fees shown are the fees that will be charged to 2019/20 entrants for each year of study on the programme, unless otherwise indicated below.

// UK & EU: £9,250 (2019/20)

// Overseas: £25,260 (2019/20)

Full details of UCL’s tuition fees, tuition fee policy and potential increases to fees can be found on the UCL Students website.

Additional costs

If you are concerned by potential additional costs for books, equipment, etc. on this programme, please get in touch with the relevant departmental contact (details given on this page).

FUNDING

The department offers an undergraduate scholarship, the EJ Gumbel Scholarship.

Various funding options are available, including student loans, scholarships and bursaries. UK students whose household income falls below a certain level may also be eligible for a non-repayable bursary or for certain scholarships. Please see the Fees and funding pages for more details.

CONTACT

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Department: Statistical Science

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/ucl-and-europe

Disclaimer

This information is for guidance only. It should not be construed as advice nor relied upon and does not form part of any contract. For more information on UCL’s degree programmes please see the UCL Undergraduate Prospectus at www.ucl.ac.uk/prospectus