STATISTICAL SCIENCE (INTERNATIONAL PROGRAMME) MSci / UCAS CODE: G305 2018 ENTRY

www.ucl.ac.uk/prospectus/statsci
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 2018

**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.

- 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.

**Research Excellence Framework (REF) 2014**

The Research Excellence Framework, or REF, is the system for assessing the quality of research in UK higher education institutions. The 2014 REF was carried out by the UK’s higher education funding bodies, and the results used to allocate research funding from 2015/16.

- 82% rated 4* ("world-leading") or 3* ("internationally excellent")

Learn more about the scope of UCL’s research, and browse case studies, on our Research Impact website.

**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.

**Degree structure**

In each year of your degree you will take a number of individual modules, normally valued at 0.5 or 1.0 credits, adding up to a total of 4.0 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 1.0 credit 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 either the structure of the Statistics BSc, the Statistics, Economics and Finance (SEF) BSc, the Statistics, Economics and a Language (SEL) BSc or the Mathematics and Statistical Science BSc (the latter choice is only possible if your qualifications meet the entry requirements for the Mathematics and Statistical Science BSc as well as those for the Statistical Science (International Programme)).

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
- Further Probability and Statistics
- Mathematics for Students of Economics, Statistics and Related Disciplines I
- Mathematics for Students of Economics, Statistics and Related Disciplines II

Optional modules

- You will select additional modules from a wide range of optional modules. UCL Statistical Science options may include:
  - Computing for Practical Statistics
  - Optimisation Algorithms in Operational Research
  - Social Statistics

**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

Optional modules

- You will select your remaining modules from a wide range of optional modules. UCL Statistical Science options may include:
  - Computing for Practical Statistics
  - Optimisation Algorithms in Operational Research
  - Social Statistics

**YEAR THREE**

Year abroad

- You will spend year three studying at a leading university abroad.
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.
Entry requirements

A LEVELS

Grades
A*AA-AAA

Subjects
A* in Mathematics or AA in Mathematics and Further Mathematics required.

GCSE

English Language and Mathematics at grade C. For UK-based students, a grade C 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

Points
38-39 overall.

Subjects
A score of 18-19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.

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)

The 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 2017/18 academic year and are for the first year of the programme at UCL only. Fees for 2018 entry will appear here as soon as they are available.

// UK & EU: £9,250 (2017/18 - see below)
// Overseas: £21,360 (2017/18)

The UK/EU fee quoted above may be subject to increase for the 2018/19 academic year and for each year of study thereafter and UCL reserves the right to increase its fees in line with UK government policy (including on an annual basis for each year of study during a programme). Fees for overseas students may be subject to an annual increase in subsequent years of study by up to 5%.

Please see the full details of UCL's fees and possible changes on the UCL Current Students website.

FUNDING

The department offers an undergraduate scholarship, the Statistical Science 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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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

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