LONDON’S GLOBAL UNIVERSITY

STATISTICS BSc / UCAS CODE: G300 2020 ENTRY

www.ucl.ac.uk/prospectus
Statistics BSc

This programme provides a broad, thorough and intellectually challenging training in the theory and practice of statistical science. Skills in statistics are valued by a variety of employers and can be applied to various problems in science, medicine, technology, finance and economics.

Key information

Programme starts
September 2020

Location
London, Bloomsbury

Degree benefits

- The programme allows considerable flexibility through the choice of optional modules, and it may be possible to choose some modules from other UCL departments.
- The department offers a friendly and supportive atmosphere, where small-group teaching and personal attention are available for all students.
- 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.

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 your first year, you will study mathematics, statistics and some computing, which will prepare you for increased specialisation in statistics in years two and three.

During the course of your degree, theoretical studies are balanced with developing practical skills, including in computing and the use of specialist software.

In the final year, there is considerable flexibility to bias your programme towards either the more mathematical or applied aspects of the subject. In particular, about one-quarter of your work will be on a project involving extensive research supervised by a member of staff within the Department of Statistical Science. Previous projects include the analysis of rainfall patterns in southern Africa, an analysis of data from a clinical trial and an analysis of volatility in financial markets.

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

Optional modules

- You will select your remaining credits from a wide range of optional modules. Options may include:
  - A Foreign Language module (Arabic, Dutch, French, German, Italian, Japanese, Mandarin or Spanish – all levels from beginner to advanced available).
  - Modules in Computer Science; Economics; Management; Mathematics; or in Science and Technology Studies.

YEAR TWO

Core or compulsory module(s)

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

Optional modules

- You will select your remaining credits from a wide range of optional modules, including at least one of the following:
  - Optimisation Algorithms in Operational Research
  - Social Statistics
**FINAL YEAR**

**Core or compulsory module(s)**
- Statistical Inference
- Statistical Science Project

**Optional modules**
- You will select your remaining credits from a wide range of optional modules. Options may include:
  - Decision & Risk
  - Bayesian Methods in Health Economics
  - Factorial Experimentation
  - Forecasting
  - Medical Statistics I
  - Medical Statistics II
  - Optimisation Algorithms in Operational Research
  - Quantitative Modelling of Operational Risk & Insurance Analytics
  - Social Statistics
  - Stochastic Methods in Finance I
  - Stochastic Methods in Finance II
  - Stochastic Systems
  - Other approved undergraduate module options

**Your learning**
We employ a variety of teaching methods which includes 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.

**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. In special cases, candidates may be interviewed.
Entry requirements

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

**Contextual Offer:** 36 points. 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
Dr Elinor Jones

Email: undergraduate-admissions@ucl.ac.uk

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Department: Statistical Science

Brexit
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/brexit

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