The world's leading companies need people who can operate in complex, innovation-intensive, data-driven environments; people who can analyse problems using quantitative tools and qualitative methods, take decisions in the face of uncertainty and risk, and deliver results through people. Taught by the UCL School of Management, the Management Science MSci provides a rigorous, practical foundation in these critical skills.

### Key information

**Programme starts**
September 2020

**Location**
London, Bloomsbury

### Degree benefits

- This degree programme provides a rigorous training in management science, with a strong focus on the quantitative skills and mathematics underpinning the practice of management.
- Students will benefit from the world-class facilities and expertise across UCL Engineering.
- The programme places an emphasis on the solving of cross-functional problems. It will train students to understand the challenges – risk, uncertainty, and growth – of complex business.
- Graduates are expected to find positions in high-growth, technology-driven and innovation-intensive organisations such as technology firms, consulting firms and in the banking and finance sector.

### 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).

Years one and two will consist of modules relating to the day-to-day operation of business – strategy, marketing, accounting and finance. This will be underpinned by fundamental modules in foundational mathematics, quantitative methods, systems design and analysis and behavioural science. These modules will be taken alongside students from across UCL Engineering and will bring an interdisciplinary edge to your studies, helping you to look at problems from multiple viewpoints and to tackle challenges using a wider engineering perspective.

In your third year you will continue with advanced modules and may also choose a particular area (for example business analysis, entrepreneurship, financial engineering) in which to specialise according to your interests and the potential career direction you wish to take. You will also undertake a dissertation.

In your final year you will continue with more advanced modules and specialist modules taken in your particular area of interest. You will also undertake a group consultancy project.

#### YEAR ONE

**Core or compulsory module(s)**

Students will take modules covering the following topics:
- The Art of Science and Management
- Critical Analytical Thinking
- Mathematical Foundations of Management I
- Business Economics I
- Data Analytics I
- Behavioural Science

**Optional modules**

- All first year modules are compulsory.

#### YEAR TWO

**Core or compulsory module(s)**

Students will take modules covering the following topics:
- Strategy by Design
- Product, Technology and Operations Management
- Finance I
- Mathematical Foundations of Management II
- Data Analytics II
- Computational Thinking
- Design

**Optional modules**

- Engineering Sciences Minor I
YEAR THREE
Core or compulsory module(s)
Students will take modules covering the following topics:
- Marketing Science
- Decision Science
- Delivering Results Through People
- Finance II
- Management Science Dissertation I
- Management Science Dissertation II

Optional modules
- Engineering Sciences Minor II
- Engineering Sciences Minor III

FINAL YEAR
Core or compulsory module(s)
Students will take modules covering the following topics:
- Global Business
- Business Diagnostics and Design
- Leadership
- Group Consultancy Project I
- Group Consultancy Project II

Optional modules
- Management Science Concentration I
- Management Science Concentration II
- Management Science Concentration III

You will select a Management Science Concentration. This consists of three integrated modules and provides you with an opportunity to extend your knowledge and skills in a specialist area, such as:
- Business Analysis
- Financial Engineering
- Marketing Science
- Operations and Project Management
- Innovation and Technology Management
- Entrepreneurship

Your learning
Teaching and learning is conducted through lectures, seminars, case studies and practicals. There is a substantial and ever-developing virtual learning environment in which you will be expected to participate fully. Extensive background reading and literature research are required throughout the programme. You will attend special sessions, guest lectures, and regular tutorials.

Assessment
Modules are examined through assessed coursework and written examinations. Examinations take place at the end of each academic year.

Your career
The Management Science degree programmes aim to provide students with a robust set of quantitative and problem-solving skills applicable throughout their life and careers.

Graduates are expected to find positions in high-growth, technology-driven and innovation-intensive organisations such as technology firms, consulting firms and in the banking and finance sector.

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.

Your application will be interesting to us if you can demonstrate critical thinking skills and an ability to reason and argue, as well as the strong quantitative skills that are required for this programme. We will be looking for a genuine interest in and motivation for studying topics such as business, innovation, entrepreneurship and technology.

Selection will be made based on the information provided in your UCAS application and personal statement.
Entry requirements

A LEVELS
Standard Offer: AAA. Mathematics required.
Contextual Offer: ABB. Mathematics required.

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: 38 points. A score of 18 points in three higher level subjects including grade 6 in Mathematics, with no score lower than 5.
Contextual Offer: 34 points. A score of 16 points in three higher level subjects, including grade 6 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 2020/21 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 2020/21 entrants for each year of study on the programme, unless otherwise indicated below.

\[
\begin{align*}
\text{UK & EU: £9,250 (2020/21)} \\
\text{Overseas: £28,610 (2020/21)}
\end{align*}
\]

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
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
Miss Leona Noel
Email: managementscience-ug@ucl.ac.uk
Telephone: +44 (0)20 7679 2385
Department: UCL School of Management

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