MATHEMATICS WITH MANAGEMENT STUDIES MSci / UCAS CODE: G1NF 2018 ENTRY

www.ucl.ac.uk/prospectus/maths
This MSci offers an additional year of study on top of the equivalent BSc, during which students have the opportunity to specialise further by taking more advanced modules, and undertaking a major project. No previous knowledge of management studies is required.

Key information

Programme starts
September 2018

Location
London, Bloomsbury

Degree benefits

- All of the modules given by the UCL School of Management are validated by external experts from the private, public and charitable sectors.
- Many of our graduates choose to build their management knowledge and experience by taking a further management qualification, such as the MBA (Master of Business Administration).
- Internationally renowned UCL Mathematics is home to world-leading researchers in a wide range of fields, especially geometry, spectral theory, number theory, fluid dynamics and mathematical modelling.
- Three of the six British winners of the Fields medal (the mathematician’s equivalent of the Nobel Prize) have associations with the department.

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.

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 the first two years you will receive a thorough grounding in pure mathematics and mathematical methods following the same modules as the single-subject Mathematics students, taking 3.0 credits of pure mathematics/mathematical methods each year. In place of the Applied Mathematics modules you will take two half-credit modules in management studies each year. Having laid the basic foundations there is a wide range of options in both mathematics and management studies in the third and fourth years. You will undertake a major project in your fourth year, which will include a substantial piece of written work and a presentation.

This programme is offered as a three-year BSc or a four-year MSci degree. The first two years of the programme are identical, and students are advised to apply for the MSci degree in the first instance, as it is possible to transfer to the BSc during the first three years.

YEAR ONE

Core or compulsory module(s)

- Mathematics modules:
  - Algebra 1
  - Algebra 2
  - Analysis 1
  - Analysis 2
  - Mathematical Methods 1
  - Mathematical Methods 2
- Management modules:
  - Communication and Behaviour in Organisations
  - Understanding Management

Optional modules

- You will select three of the following:
  - Algebra 4: Groups and Rings
  - Analysis 4: Real Analysis
  - Computational Methods
  - Geometry and Groups
  - Mathematical Methods 3
  - Number Theory
  - Probability and Statistics
- One of the modules may be replaced by a half-credit outside option, subject to departmental approval.

YEAR TWO

Core or compulsory module(s)

- Mathematics modules:
  - Algebra 3: Further Linear Algebra
  - Analysis 3: Complex Analysis
  - Mathematical Methods 3
- Management modules:
  - Accounting for Business
  - Business in a Competitive Environment

Optional modules

- You will select three of the following:
YEAR THREE
Core or compulsory module(s)
// Project, Programme and Portfolio Management

Optional modules
// You will select:
// 2.0 credits of designated third-year mathematics options
// 0.5 credits of standard management options
// 1.0 credit of third-year mathematics or suitable management or approved outside options

FINAL YEAR
Core or compulsory module(s)
// Project in Mathematics

Optional modules
// You will select:
// 1.0 credit of fourth-year mathematics options
// 1.0 credit of suitable management options
// 1.0 credit of third- or fourth-year mathematics or suitable fourth-year management or approved outside options.

Your learning
Teaching is mainly carried out through lectures and small-group tutorials. Problem classes allow you to exercise the skills you have learned. In addition, an ‘office hours’ system for each programme allows you to meet with tutors on a one-to-one basis to review parts of the degree that you find interesting or need clarifying. A Student Mentor scheme runs in the department offering support and advice to first-years.

Assessment
Most modules are assessed by two-hour written examinations in the third term, with a small element (10%) of coursework assessment.

Your career
We aim to develop your skills in mathematical reasoning, problem-solving and accurate mathematical manipulation. You will also learn to handle abstract concepts and to think critically, argue logically and express yourself clearly.

A mathematics degree is highly valued by employers due to the skills in logical thinking, analysis, problem-solving and, of course, numeracy, that it develops.

// Graduate Trainee, Sainsbury’s
// Full-time student, MSc in Financial Risk Management at UCL
// Management Trainee, Bank of China, Hong Kong
// Full-time student, MSc in Financial Computing at UCL

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.

In addition to academic requirements, we expect you to demonstrate an understanding and enjoyment of the subject beyond the examined syllabus, through your reading and involvement in problem-solving activities. Evidence of your curiosity and perseverance in tackling puzzles, and your enjoyment of logical and abstract thinking, should be shown in your application.

If your application is sufficiently strong you will be invited to visit the department for an applicant afternoon. Alternatively, some invitations are for an academic interview. You will also be able to talk to current students and staff and will be given a tour.
**Entry requirements**

**A LEVELS**

**Grades**
A\*\*A, or A\*AA and a 1 in any STEP paper or distinction in Mathematics AEA

**Subjects**
Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered.

**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**
39-40 overall.

**Subjects**
A score of 20 points in three higher level subjects including 7 in Mathematics, or 19 points in three higher level subjects including 7 in Mathematics and a 1 in any STEP paper or a distinction in Mathematics AEA, with no score below 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.

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**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:** £20,820 (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**
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 Robert Bowles

Email: admissions@math.ucl.ac.uk

Telephone: +44 (0)20 7679 3501

Department: Mathematics

**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