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

www.ucl.ac.uk/prospectus/maths
Mathematics with Management Studies MSci /

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

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:
Algebra 4: Groups and Rings
Analysis 4: Real Analysis
Computational Methods
Geometry and Groups
Mathematical Methods 4
Number Theory
Probability and Statistics

One of the modules may be replaced by a half-credit outside option, subject to departmental approval.
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*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 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

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.

TUITION FEES

The fees indicated are for undergraduate entry in the 2018/19 academic year. The UK/EU fees shown are for the first year of the programme at UCL only. The Overseas fees shown are the fees that will be charged to 2018/19 entrants for each year of study on the programme, unless otherwise indicated below.

// UK & EU: £9,250 (2018/19)
// Overseas: £22,790 (2018/19)

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