Mathematics with Economics MSci

This MSci offers an extra year of study on top of the Mathematics with Economics BSc, during which students have the opportunity to specialise further by taking more advanced modules, and undertaking a major project. No previous knowledge of economics is required.

Key information

Programme starts
September 2018

Location
London, Bloomsbury

Degree benefits

// There are close and exciting connections between parts of economic theory and certain areas of abstract mathematics. Research interests of staff allow the possibility of advanced modules in this area.

// The MSci allows for additional in-depth study, providing the skills necessary for academic research in mathematics and economics.

// 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 analysis, algebra and mathematical methods, following the same modules as the single-subject Mathematics students taking 3.0 credits each year. In place of the Applied Mathematics modules, you will take 1.0 credit of introductory economics each year (comprising both microeconomics and macroeconomics). Having laid the basic foundations there is a range of options in both mathematics and economics in the third and fourth years. The fourth year will include a major project, which will involve 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

// Economics modules:
  Economics 1 (Combined Studies) (1.0 credit)

Optional modules

// All first year modules are compulsory.

YEAR TWO

Core or compulsory module(s)

// Mathematics modules:
  Algebra 3: Further Linear Algebra
  Analysis 3: Complex Analysis
  Mathematical Methods 3

// Economics modules:
  Economics 2 (Combined Studies) (1.0 credit)

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)

// All third-year modules are optional. Currently available mathematics options are described on the UCL Mathematics website.

Optional modules

// You will select:
  2.0 credits of third-year mathematics designated options
  1.0 credit of suitable economics options
  1.0 credit of third-year mathematics or approved outside options
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.

Data taken from the 'Destinations of Leavers from Higher Education' survey undertaken by HESA looking at the destinations of UK and EU students in the 2013-2015 graduating cohorts six months after graduation.
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. 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.

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

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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