BIOMEDICAL SCIENCES BSc / UCAS CODE: B990
2018 ENTRY

www.ucl.ac.uk/prospectus/bimedsci
This BSc is designed to introduce students to a variety of scientific disciplines across the biosciences. The interdisciplinary nature of the programme means that the areas covered include anatomy, cell biology, developmental biology, genetics, immunology and infection, neuroscience, pharmacology, physiology and psychology.

**Key information**

**Programme starts**
September 2018

**Location**
London, Bloomsbury

**Degree benefits**

// UCL is a long-standing centre of excellence for biomedical science subjects. It is internationally recognised for its strength within the field of biomedical research.

// You will have the opportunity to transfer to one of nine specific degree programmes from the second year, or alternatively to continue with the general Biomedical Sciences programme.

// You will be taught by experts in the different subjects offered, but will also be encouraged to discover how the subjects overlap and interact. This will give your studies both breadth and depth.

// Our excellent facilities include laboratories, library collections and computer cluster rooms. You can become involved with the activities of the student-run Life Sciences Society, which organises seminars, careers evenings and other social events.

**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.

// Interdisciplinary programme: see contributing departments

Learn more about the scope of UCL’s research, and browse case studies, on our Research Impact website.

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**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 year all modules are mandatory and are designed to give you a firm foundation on the basis of which you can make an informed choice for later years. The modules cover topics in, e.g., anatomy, cellular and molecular biology, chemistry, genetics, pharmacology and physiology.

If you find that your interest becomes focused on one specific subject area after your first year, then you can transfer to a specialist degree programme.

If you wish to remain with the general Biomedical Sciences programme, the second year offers five streams of study.

In your third year, you will undertake a research project under the supervision of a staff member in conjunction with a research group in one of the faculty’s departments or within UCL’s biomedical institutes. You will also select from an extensive range of options in your chosen stream of study.

**Specialist degree programmes**

You can transfer to any of the following specialist degree programmes after year one:

- Anatomy and Developmental Biology
- Genetics
- Human Genetics
- Immunology and Infection
- Molecular Biology
- Neuroscience
- Pharmacology
- Physiology
- Physiology and Pharmacology

### YEAR ONE

**Core or compulsory module(s)**

- Cell Physiology and Developmental Biology
- Cellular and Molecular Biology
- Chemistry for Biology Students
- Introduction to Genetics
- Introduction to Human Anatomy
- An Introduction to the Mechanisms of Drug Action
- Mammalian Physiology

**Optional modules**

- All first year modules are compulsory.
Biomedical Sciences programme

The second year offers five streams of study:
- Stream 1: Organs and Systems
- Stream 2: Control Systems
- Stream 3: Developmental Biology
- Stream 4: Drug Mechanisms
- Stream 5: Cells and Molecules

Pathways options
- You can remain on the Biomedical Sciences BSc degree or transfer to a specialist degree programme:
  - Anatomy and Developmental Biology
  - Genetics
  - Human Genetics
  - Immunology and Infection
  - Molecular Biology
  - Neuroscience
  - Pharmacology
  - Physiology
  - Physiology and Pharmacology

FINAL YEAR

Core or compulsory module(s)
- Either a Laboratory-based Research Project (1.5 credits) or a Literature-based Research Project (1.0 credits).

Optional modules
- You will select from a wide range of optional modules in your chosen stream of study and from other approved disciplines within UCL, to the value of either 2.5 or 3.0 credits depending on your chosen project.

Your learning
Teaching across the UCL Faculty of Life Sciences involves a mixture of lectures, practical classes, seminars, tutorials and computer-based exercises. The small-group settings for practical and tutorial work provide opportunities for informal discussion. The first year is predominantly taught through lectures and laboratory classes.

Assessment
Modules will be assessed through a combination of coursework, practical reports, web-based exercises, tests and oral presentations. Written examinations will take place at the end of each academic year. Your success in your first-year examination results will be used to assess your eligibility for entry into the specialist degree programmes.

Your career
You will develop the critical and analytical skills necessary to confront complex problems, equipping you for further study, research, or for a wide variety of careers such as those associated with medical research. The training in skills such as logical thinking and decision-making will be valuable in many fields.

A degree in biomedical sciences opens doors to many career possibilities. Graduates may enter the broad biomedical science field - such as within healthcare or the pharmaceutical industry - or use their skills in careers like scientific journalism or management. The degree also provides an excellent preparation for postgraduate research.
Entry requirements

A LEVELS
Grades
AAA

Subjects
Biology and Chemistry required, plus Mathematics or Physics preferred.

GCSE
English Language and Mathematics at grade B. 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
38 overall.

Subjects
A total of 18 points in three higher level subjects to include Biology and Chemistry, plus Mathematics or Physics preferred, with no score below 5. Mathematics must be offered at standard level with minimum of grade 5, if not offered at higher level.

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: £21,960 (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