A colourful array of chemicals is showcased inside UCL's Christopher Ingold Building. Sir Christopher Ingold, who served as Head of UCL Chemistry from 1937 – 1961, is regarded as one of the principal pioneers of physical organic chemistry.
Chemistry is the science at the heart of everything we see, hear, feel, touch and smell; studying chemistry helps you to understand the world around you. Closely related to physics and biology, chemistry helps you understand the properties and composition of matter and the interactions between substances.

Subject overview

Total intake 138
(2017 entry)

Applications per place 7
(2016 entry)

Research Excellence Framework (REF)
94% rated 4* ("world-leading") or 3* ("internationally excellent")

First career destinations (2013–2015)
- Full-time student, MPhil in Chemistry at the University of Cambridge
- Analyst, J.P. Morgan
- Investment Banking Analyst, Bank of America Merrill Lynch
- Chemical Research Analyst, IHS
- Associate Scientist, Argenta Discovery

Contact details
Dr Dejan-Kresimir Bucar
(Admissions Tutor)
e admissions.chem@ucl.ac.uk
t +44 (0)20 7679 4511

For more information, including programme structure visit: www.ucl.ac.uk/prospectus/chemistry

Chemistry MSci
UCAS: F101 • 4 years

A levels: AAA-AAB. Chemistry and either one science subject or Mathematics required. Standard GCSE offer (see page 31), except Mathematics at grade B.

IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and either a science subject or Mathematics, with no score lower than 5.

Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year on top of the Chemistry BSc, in which you may specialise further and deepen your knowledge by undertaking advanced modules and research projects.

Years one and two follow the same structure as the Chemistry BSc, and you may transfer to the BSc at the end of year two should you wish (students are advised to apply for the MSci initially as this keeps more options open to you). In year three you will have scope to develop your own personal interests, and will undertake a literature project and a research methods module in preparation for year four, when you will complete an advanced chemical research project.

Chemistry BSc
UCAS: F100 • 3 years

A levels: AAA-AAB. Chemistry and either one science subject or Mathematics required. Standard GCSE offer (see page 31), except Mathematics at grade B.

IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and either a science subject or Mathematics, with no score lower than 5.

Other qualifications: see www.ucl.ac.uk/otherquals

This three-year programme offers a complete education in chemistry, covering all the important areas of the subject while also allowing you to take optional modules in other areas such as astronomy, biology, computing or physics.

In all three years, core modules provide a solid grounding in the areas of inorganic, organic and physical chemistry. These are supplemented by optional modules taken from a wide range on offer both within UCL Chemistry and from other areas (e.g. languages, life sciences, management). By year three you will have developed your own interests and specialisms. At the end of year two you may transfer to the four-year MSci programme; students are advised to apply for the MSci initially, as this offers more flexibility.
Chemical Physics MSci
UCAS: F323 • 4 years

A levels: AAA. Chemistry, Mathematics and Physics required. Standard GCSE offer (see page 31), except Mathematics at grade B.
IB Diploma: 38 points. A total of 18 points in three higher level subjects including Chemistry, Mathematics and Physics, with no score below 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year on top of the Chemical Physics BSc, providing scope for greater in-depth study in advanced topics such as quantum mechanics and computational chemistry. It is ideal if you intend to pursue a science-based career.

Years one and two are identical to the BSc, and you may transfer to the BSc after year two if you wish (we advise you to apply for the MSci initially as this offers more flexibility). In year three you undertake a literature review and an introduction to research methods module in preparation for year four, when you complete an advanced chemical research project. Throughout years three and four you also choose advanced modules from a wide range, allowing you to develop your own interests.

Chemical Physics BSc
UCAS: F320 • 3 years

A levels: AAA. Chemistry, Mathematics and Physics required. Standard GCSE offer (see page 31), except Mathematics at grade B.
IB Diploma: 38 points. A total of 18 points in three higher level subjects including Chemistry, Mathematics and Physics, with no score below 5.
Other qualifications: see www.ucl.ac.uk/otherquals

Chemical physics is an area of modern chemistry that will fascinate students who enjoy the science common to physics and chemistry. You will gain a fundamental understanding of the origins of chemical behaviour, while exploring exciting developments at the interface of chemistry with the other physical sciences.

Compulsory modules in all years provide you with a solid foundation for your studies. In years two and three you may develop your own interests by choosing optional modules from a wide range offered across the Faculty of Mathematical & Physical Sciences, and there is scope to develop skills in physics and theoretical aspects of chemistry. At the end of year two you may transfer to the four-year MSci programme; students are advised to apply for the MSci initially, as this offers more flexibility.
Throughout my A levels, I was unsure which university I wanted to go to. However, it became clear that UCL was the right one for me. After my short time here, this has definitely been true. As well as being a consistently high-performing university, it also gives students a large role to play in the development of degrees, societies, and general life.

One of the many brilliant things about a Chemistry degree is the flexibility. In my first term I have been in all kinds of unexpected situations, including climbing up lamp posts to place diffusion tubes around London. This is complemented by the extraordinary resources and teaching of UCL Chemistry, with the best laboratories that an undergraduate could hope for. The facilities at UCL are definitely the best that I have come across. The Science Library alone is very rich in historical resources dating back centuries. Computer clusters are also largely available for any student. The laboratory equipment available is also very impressive, including IR, UV, and NMR spectrometers. These facilities make it very easy to get used to techniques and skills necessary for later years of the degree.

Medicinal Chemistry MSci
UCAS: F153 • 4 years
A levels: AAA-AAB. Chemistry plus either one, or preferably two from Biology (preferred), Mathematics or Physics. Standard GCSE offer (see page 31), except Mathematics at grade B.
IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and either Biology (preferred), Mathematics or Physics, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year on top of the Medicinal Chemistry BSc, in which students may undertake an advanced research project in fields such as drug design, chemical biology or organic chemistry. Years one and two are identical to the BSc, and you may transfer to the BSc after year two if you wish (we advise you to apply for the MSci initially as this offers more flexibility). In year three you will undertake a literature project and an introduction to research methods module in preparation for year four, when you will complete an advanced chemical research project. In years three and four you may also choose optional modules from a wide range offered across UCL.

Medicinal Chemistry BSc
UCAS: F150 • 3 years
A levels: AAA-AAB. Chemistry plus either one, or preferably two from Biology (preferred), Mathematics or Physics. Standard GCSE offer (see page 31), except Mathematics at grade B.
IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and either Biology (preferred), Mathematics or Physics, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

Medicinal chemistry is concerned with the discovery, design and synthesis of new drugs for clinical use. This BSc includes modules in biochemistry, biology, physiology and pharmacology, along with the fundamentals of chemistry necessary to design and synthesise drugs. These provide an understanding of the link between chemical structure and clinical effectiveness. Half your modules will be taken in chemistry and half in the life sciences. Years one and two comprise compulsory modules providing a grounding in subjects such as organic and physical chemistry, biochemistry and physiology. In year three you will also have the opportunity to select optional modules from a wide range across UCL. At the end of year two you may transfer to the four-year MSci programme; we advise you to apply for the MSci initially, as this offers more flexibility.
Chemistry with a European Language MSci
UCAS: F1RX • 4 years

A levels: AAA-AAB. Chemistry, plus one of Biology, Physics or Mathematics required. Any language preferred as third subject, but not essential. Standard GCSE offer (see page 31), except Mathematics and a foreign language at grade B.
IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and one of Biology, Chemistry, Physics or Mathematics, with no score lower than 5. Any language preferred as third higher level subject, but not essential.

Other qualifications:
see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year on top of the Chemistry with a European Language BSc, which you will spend abroad at a European university (we currently have links with institutions in France, Germany, Italy, Spain and Sweden) undertaking an advanced chemical research project.

Years one and two are identical to the BSc and you may transfer to the BSc after year two if you wish (we advise you to apply for the MSc initially as this offers more flexibility). In years one, two and three language study will take up approximately 25% of your time; and the chemistry content is identical to that of the single-subject Chemistry BSc. Year four is spent at a university in a country where your chosen language is spoken, undertaking a research project.

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Chemistry with a European Language BSc
UCAS: F1R9 • 3 years

A levels: AAA-AAB. Chemistry, plus one of Biology, Physics or Mathematics required. Any language preferred as third subject, but not essential. Standard GCSE offer (see page 31), except Mathematics and a foreign language at grade B.
IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and one of Biology, Chemistry, Physics or Mathematics, with no score lower than 5. Any language preferred as third higher level subject, but not essential.

Other qualifications:
see www.ucl.ac.uk/otherquals

This BSc programme provides a thorough grounding in all major aspects of chemistry and fluency in one of a range of languages, including French, German, Italian and Spanish. Graduates will be well placed to work in mainland Europe or as part of a multinational company. Throughout your three years you will take approximately 25% of your modules in the UCL Centre for Languages & International Education (CLIE), in small classes with common levels of fluency ranging from beginners to experts. The chemistry content is identical to that of the single-subject Chemistry BSc, with compulsory modules in each year covering inorganic, organic and physical chemistry and a wide range of optional modules. Please note that the BSc does not offer a year abroad; to keep your options open we advise you to apply initially for the MSc.

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Chemistry with Management Studies MSci
UCAS: F1NF • 4 years

A levels: AAA-AAB. Chemistry and either one science subject or Mathematics required. Standard GCSE offer (see page 31), except Mathematics at grade B.
IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and either a science subject or Mathematics, with no score lower than 5.

Other qualifications:
see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year on top of the Chemistry with Management Studies BSc in which to investigate both disciplines in greater depth. The programme offers a thorough grounding in management skills while all major aspects of chemistry are explored and developed.

The first two years of study are identical to the equivalent BSc, and we advise you to apply for the MSc initially as this keeps more options open. You will cover the full range of chemistry core components, together with optional modules in chemistry and other options from outside the department. The management studies component fulfils around 25% of the programme. In your final year you will undertake a chemical research project alongside optional modules, allowing you to specialise in your chosen field.
Five former staff and students from UCL Chemistry have won the Nobel Prize, including Sir William Ramsay in 1904, for the discovery of five noble gases.

Chemistry with Management Studies BSc

UCAS: F1N2 • 3 years

A levels: AAA-AAB. Chemistry and either one science subject or Mathematics required. Standard GCSE offer (see page 31), except Mathematics at grade B.

IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Chemistry and either a science subject or Mathematics, with no score lower than 5.

Other qualifications: see www.ucl.ac.uk/otherquals

The Chemistry with Management Studies BSc at UCL is ideal if you are considering a career in management and are seeking to develop managerial skills. The core of the programme’s chemistry component is the same as the Chemistry BSc, giving you the same thorough grounding in all major aspects of the subject.

Years one and two comprise compulsory introductory modules in both chemistry and management studies, with approximately 25% of your time spent on management studies. The chemistry content is identical to that of the single-subject Chemistry BSc. At the end of year two you may transfer to the four-year MSci programme (we advise you to apply for the MSci initially, as this keeps more options open). In year three you will undertake a literature project and an introduction to research methods module in preparation for year four, when you will complete an advanced chemical research project. In years three and four you will also take advanced modules, both compulsory and optional, many complementing your mathematical skills (e.g. Numerical Methods in Chemistry, Topics in Quantum Mechanics).

Chemistry with Mathematics MSci

UCAS: F1GC • 4 years

A levels: AAA-AAB. Mathematics grade A required, plus Chemistry. Standard GCSE offer (see page 31), except Mathematics at grade B.

IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Mathematics at grade 6 and Chemistry, with no score below 5.

Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme offers an extra year on top of the Chemistry with Mathematics BSc in which to undertake an original chemical research project and study chemistry and its relationship with other disciplines in greater depth.

The first two years of study are identical to the equivalent BSc, and we advise you to apply for the MSci initially as this keeps more options open. In year three you will undertake a literature project and an introduction to research methods module in preparation for year four, when you will complete an advanced chemical research project. In years three and four you will also take advanced modules, both compulsory and optional, many complementing your mathematical skills (e.g. Numerical Methods in Chemistry, Topics in Quantum Mechanics).

Chemistry with Mathematics BSc

UCAS: F1G1 • 3 years

A levels: AAA-AAB. Mathematics grade A required, plus Chemistry. Standard GCSE offer (see page 31), except Mathematics at grade B.

IB Diploma: 36-38 points. A score of 17-18 points in three higher level subjects including Mathematics at grade 6 and Chemistry, with no score below 5.

Other qualifications: see www.ucl.ac.uk/otherquals

Many aspects of chemistry, particularly physical and theoretical chemistry, require a good understanding of advanced mathematical methods. The Chemistry with Mathematics BSc offers the opportunity to gain a fundamental understanding of the origins of chemical behaviour, while exploring exciting developments at the interface of chemistry with the other physical sciences.

Years one and two mainly comprise compulsory modules in chemistry and mathematics. The mathematics component takes up about 25% of the programme and the chemistry component is identical to that of the single-subject Chemistry BSc. At the end of year two you may transfer to the four-year MSci programme; we advise you to apply for the MSci initially as this offers more flexibility. In year three, advanced compulsory modules are supplemented with optional modules from a wide range offered across UCL.
The Earth sciences address fundamental questions about the origin of our dynamic planet, the processes that shape it, and the history of the life it sustains. You will study the complex interactions of the Earth ‘system’ and environmental issues including climate change, earthquakes, volcanic eruptions and Earth’s resources.

Earth Sciences MSc
UCAS: F604 • 4 years

A levels: AAA-ABB. Two sciences preferred. Standard GCSE offer (see page 31).
IB Diploma: 34-38 points. A score of 16-18 points in three higher level subjects, preferably to include two sciences, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme provides an additional year on top of the Earth Sciences BSc, in which you undertake an independent research project, extend your knowledge with advanced modules related to your specialist pathway, and join in a wide-ranging seminar series on Earth and Planetary System Science.

Years one, two and three are identical to the Earth Sciences BSc; you will select a pathway through the subject (General, Palaeobiology, or Environment and Policy) and choose from a wide range of modules within these areas. In year four you will undertake an independent research project, an introduction to research planning and practice through example and experience.

Earth Sciences BSc
UCAS: F603 • 3 years

A levels: AAA-ABB. Two sciences preferred. Standard GCSE offer (see page 31).
IB Diploma: 34-38 points. A score of 16-18 points in three higher level subjects, preferably to include two sciences, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This flexible programme allows you to select from the range of options offered across environmental geoscience, geology and geophysics. You may also graduate with a degree in Earth Sciences (Palaeobiology), or in Earth Sciences (Environment and Policy), depending on your chosen modules.

Upon entry to the programme you will select a pathway through the subject (General, Palaeobiology, or Environment and Policy). The programme comprises many optional modules taken from across UCL Earth Sciences. Year three emphasises individual initiative and problem-based learning, and the fieldwork component provides you with a unique opportunity to develop independent and team skills and problem-solving abilities.
Environmental Geoscience BSc
UCAS: F644 • 3 years
A levels: AAA-ABB. Two sciences preferred. Standard GCSE offer (see page 31).
IB Diploma: 34-38 points. A score of 16-18 points in three higher level subjects, preferably to include two sciences, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

Environmental Geoscience MSci
UCAS: F645 • 4 years
A levels: AAA-ABB. Two sciences preferred. Standard GCSE offer (see page 31).
IB Diploma: 34-38 points. A score of 16-18 points in three higher level subjects, preferably to include two sciences, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme provides an additional year on top of the Environmental Geoscience BSc, in which students extend their knowledge and understanding through advanced study and undertake an independent research project. The programme is fully accredited by the Geological Society of London.

Years one, two and three are identical to the Environmental Geoscience BSc, developing your core skills and knowledge and allowing you to pursue your own interests and specialisations within the subject. In year four you will undertake an independent research project, as well as choosing advanced optional modules from a wide range (e.g. in palaeoclimatology, physical volcanology, tectonic geomorphology and volcanic hazards). You may also choose some optional modules from outside UCL Earth Sciences, for example in geography.

Environmental Geoscience is concerned with the interaction between the Earth sciences and human activity, and this BSc provides a sound topical background in the environmental aspects of the Earth sciences. The programme is fully accredited by the Geological Society of London.

This programme offers an integrated study of the Earth, encompassing the evolution of the planet and its internal workings, the development of its biosphere and atmosphere, and its surface processes, emphasising natural and man-induced development of the terrestrial environment. In years one and two you will acquire core skills and knowledge in the subject. Year three allows for specialisation and diversification, emphasising individual initiative and problem-based learning. The emphasis on fieldwork provides a unique opportunity to develop independent and team skills and problem-solving abilities.
It is wonderful to be in a university where your lecturers are active researchers and share their own findings in classes. As an Earth sciences student, a highlight is the numerous field trips. Getting a chance to go and see what you have learnt in class is one of the best ways to learn. It's also the time when you make your closest friends!

I'm expected to graduate from UCL this coming summer with an MSci and am currently applying for PhD positions not only in the UK but worldwide. My department's staff members have been extremely helpful and enthusiastic about giving me guidance with my applications. UCL has some great facilities, with numerous libraries and computer clusters around campus; it is always possible to find a quiet area to work. Living in London is great since you basically have everything you could ever want right there!
The student-run Greenough Society organises events and social outings including lectures, field trips, guest speakers and dinners.

Geophysics MSci
UCAS: F663 • 4 years

A levels: AAA-ABB. Mathematics and Physics required. Standard GCSE offer (see page 31).
IB Diploma: 34-38 points. A score of 16-18 points in three higher level subjects including Mathematics and Physics, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year on top of the Geophysics BSc, in which students extend their knowledge and understanding by taking advanced modules and undertaking an independent research project. The programme is fully accredited by the Geological Society of London.

Years one, two and three are identical to the Geophysics BSc, developing your core skills and knowledge and allowing you to develop your own interests and specialisations within the subject. In year four you will undertake an independent research project, as well as choosing advanced optional modules from a wide range (e.g. Deep Earth and Planetary Modelling, Earth and Planetary Materials, Earthquake Seismology and Earthquake Hazards). You may also choose some optional modules from outside UCL Earth Sciences, for example in UCL Physics & Astronomy.

Geophysics BSc
UCAS: F660 • 3 years

A levels: AAA-ABB. Mathematics and Physics required. Standard GCSE offer (see page 31).
IB Diploma: 34-38 points. A score of 16-18 points in three higher level subjects including Mathematics and Physics, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This broad-based programme provides a complete study of the physics of the solid Earth and its constituent materials, and of its atmosphere, oceans and ice sheets, leading to a firm foundation in geology, geological fieldwork, physics, mathematics and computing. The programme is fully accredited by the Geological Society of London.

The first two years provide you with core skills and knowledge as you study the fundamentals of mathematics, mechanics, electricity and magnetism, Earth materials, structural geology and tectonics, global geophysics, and Earth processes. Theoretical studies are integrated with a large element of illustrative practical work, both in the laboratory and in the field. In the third year there are more advanced modules in, for example, seismology, and an opportunity to specialise. Fieldwork develops independent and team-working skills and problem-solving abilities.
Mathematics underpins the modern picture of the world around us. Our degree programmes are intellectually challenging and the rewards of study are enormous. Mathematics will develop your imagination and your ability to think and argue clearly, as well as offering a wealth of options for your future career.

**Mathematics MSci**

UCAS: G107 • 4 years

- **A levels:** A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).
- **IB Diploma:** 39-40 points. 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:** see www.ucl.ac.uk/otherquals

The four-year Mathematics MSci offers an additional year on top of the Mathematics BSc, allowing students to specialise further by taking more advanced modules, and undertaking a major final-year project.

- Years one and two follow the same structure as the Mathematics BSc, providing you with a solid grounding in the subject and a basis upon which to specialise in later years. In years two and three there is a huge variety of optional modules to choose from both within and outside the department, and in year four you will undertake a major project. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

**Mathematics BSc**

UCAS: G100 • 3 years

- **A levels:** A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).
- **IB Diploma:** 39-40 points. 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:** see www.ucl.ac.uk/otherquals

This three-year programme allows you to study varied aspects of mathematics to an advanced level, with core modules in algebra, analysis, applied mathematics and mathematical methods. With this core knowledge you may then build your degree, choosing options from over 30 specialist modules.

In the first half of the programme you will gain a solid grounding in basic advanced mathematics. From then on you may specialise in your areas of interest, with a huge variety of optional modules to choose from both within and outside the department (e.g. geophysical fluid dynamics, mathematics in biological or financial contexts, number theory, probability, a language or social science). The programme is also offered as a four-year MSci.
Mathematics with Economics MSci
UCAS: G11LC • 4 years
A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).
IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

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.

Years one and two follow the same structure as the BSc programme, providing a solid grounding in both mathematics and economics. In years two and three you may choose optional modules from a huge variety both within and outside the department. In year four you will undertake a major project involving a substantial piece of written work and a presentation. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

Mathematics with Economics BSc
UCAS: G11L1 • 3 years
A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).
IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

This BSc is designed for students who are interested in making mathematics their major area of study but who would also like to obtain knowledge and an understanding of general economics and related subjects such as commerce and business. No previous knowledge of economics is required.

Years one and two provide a thorough grounding in analysis, algebra and mathematical methods. You will also take introductory economics modules, comprising both microeconomics and macroeconomics components. From year two onwards there is an opportunity to specialise by taking optional modules from a wide range on offer both within and outside the department, and in year three all modules are optional. The programme is also offered as a four-year MSci.

Mathematics with Management Studies MSci
UCAS: G11NF • 4 years
A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).
IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

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.

Years one and two follow the same structure as the BSc programme, providing a solid grounding in both mathematics and management studies. In years two and three you may choose optional modules from a wide range in mathematics, management studies and other subjects. In year four you will undertake a major project involving a substantial piece of written work and a presentation. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

My time at UCL helped me explore a wide range of areas in mathematics enabling me to develop research interests with confidence.

Graham Benham • Applied Mathematics PhD student
Mathematics with Management Studies BSc
UCAS: G1N2 • 3 years

A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).
IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

This BSc combines a broad-based training in mathematics with highly practical modules from the UCL School of Management, which will be of direct use to those seeking a career in management. No previous knowledge of management studies is required.

Years one and two provide a thorough grounding in pure mathematics and mathematical methods, as well as an introduction to management studies. From year two onwards there is an opportunity to specialise by taking optional modules from a wide range on offer both within and outside the areas of mathematics and management studies, and in year three all modules are optional. The programme is also offered as a four-year MSci.

Mathematics with Mathematical Physics MSci
UCAS: G1FH • 4 years

A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or one of Mathematics or Further Mathematics at A* if STEP or AEA offered. Physics also required. Standard GCSE offer (see page 31).
IB Diploma: 39-40 points. A score of 20 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics, or 19 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics and a 1 in any STEP paper or a distinction in Mathematics AEA, with no score below 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This MSci offers an additional year of study on top of the Mathematics with Mathematical Physics BSc, during which students have the opportunity to specialise further by taking more advanced modules, and undertaking a major project.

Years one and two follow the same structure as the BSc, providing you with a solid grounding and a basis upon which to specialise in later years. In years two and three you may choose optional modules from a wide range in mathematics, physics and other subjects (e.g. a language or social science). In year four you will undertake a major project. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.
Mathematics with Mathematical Physics BSc

UCAS: G1F3 • 3 years

A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or one of Mathematics or Further Mathematics at A* if STEP or AEA offered. Physics also required. Standard GCSE offer (see page 31).

IB Diploma: 39-40 points. A score of 20 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics, or 19 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics and a 1 in any STEP paper or a distinction in Mathematics AEA, with no score below 5.

Other qualifications: see www.ucl.ac.uk/otherquals

Mathematics and physics are closely interlinked subjects, with each providing many fascinating insights into the other. Students on this programme receive a thorough mathematical training and may also take modules in UCL Physics & Astronomy, as well as more widely across both UCL and the University of London.

Years one and two provide a thorough grounding in pure mathematics and mathematical methods, as well as an introduction to physics subjects such as quantum mechanics. From year two onwards you may specialise by taking optional modules from a wide range on offer from both within and outside the areas of mathematics and physics, and in year three all modules are optional. The programme is also offered as a four-year MSci.

Mathematics with Modern Languages MSci

UCAS: G11X • 4 years

A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).

IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year of study on top of the Mathematics with Modern Languages BSc, during which students have the opportunity to specialise further by taking more advanced modules, and undertaking a major project.

Years one and two follow the same structure as the BSc, providing you with a solid grounding and a basis upon which to specialise in later years. In years two and three you may choose optional modules from a wide range in mathematics, languages and other subjects (e.g. a social science). In year four you will undertake a major project. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

Mathematics with Modern Languages BSc

UCAS: G1T9 • 3 years

A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).

IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

This three-year programme offers a comprehensive education in mathematics along with the opportunity to achieve proficiency in two or more modern languages from a choice of Arabic, French, German, Italian, Japanese, Mandarin, Spanish and possibly others. Graduates are equipped for careers that may take them to Europe or further afield.

Years one and two provide a thorough grounding in pure mathematics and mathematical methods, and a basis upon which to specialise in later years. You will also take compulsory language modules. In year three you have a free choice of optional modules from those offered in mathematics, languages and approved modules in other disciplines. The programme is also offered as a four-year MSci.
Mathematics and Physics MSci
UCAS: GF1H • 4 years

A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or one of Mathematics or Further Mathematics at A* if STEP or AEA offered. Physics also required. Standard GCSE offer (see page 31).

IB Diploma: 39-40 points. A score of 20 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics, or 19 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics and a 1 in any STEP paper or a distinction in Mathematics AEA, with no score below 5.

Other qualifications: see www.ucl.ac.uk/otherquals

This MSci offers an additional year of study on top of the Mathematics and Physics BSc, during which students have the opportunity to specialise further by taking more advanced modules and completing a major project.

Years one and two follow the same structure as the Mathematics and Physics BSc, with compulsory modules providing an introduction to both subjects. In year three you may choose optional modules from a wide range in mathematics, physics and other subjects (e.g. a language or social science). In year four you will undertake a major project. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

Mathematics and Physics BSc
UCAS: GF13 • 3 years

A levels: A*A*A, or A*AA and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or one of Mathematics or Further Mathematics at A* if STEP or AEA offered. Physics also required. Standard GCSE offer (see page 31).

IB Diploma: 39-40 points. A score of 20 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics, or 19 points in three higher level subjects including 7 in Mathematics and at least 6 in Physics and a 1 in any STEP paper or a distinction in Mathematics AEA, with no score below 5.

Other qualifications: see www.ucl.ac.uk/otherquals

Physics and mathematics are inextricably linked. It is not really possible to understand the basic concepts of physics such as elementary particle theory without a strong grounding in both pure and applied mathematics. This BSc combines the study of mathematics and physics on an equal basis, each reinforcing the other.

In years one and two a balanced selection of compulsory modules in UCL Mathematics and UCL Physics & Astronomy provides a foundation in both subjects, and a basis upon which to specialise in later years. In year three you may choose from a wide range of optional modules over both subjects. Practical work is possible, but not required. The programme is also offered as a four-year MSci.

Lingbo Ji
Mathematics and Physics BSc
Third Year

“I chose to study Mathematics and Physics because I really enjoy problem-solving and the process of discovering nature through rigorous analytic thinking.

My favourite modules so far are Fluid Mechanics and Quantum Physics. It is exciting for me to see that different branches of maths can be combined to unveil the mechanisms behind a wide range of physical phenomena.

In summer, there was the opportunity to attend an undergraduate summer school organised by the London Mathematical Society, which was very enriching and inspiring.”
Mathematics and Statistical Science MSci

UCAS: GGC3 • 4 years

A levels: A**A, or A*A and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).

IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

This MSci, accredited by the Royal Statistical Society, offers an additional year of study on top of the Mathematics and Statistical Science BSc. Students have the opportunity to specialise further by taking more advanced modules and completing a major project. No previous knowledge of statistics is required.

Years one and two follow the same structure as the Mathematics and Statistical Science BSc, with compulsory modules providing an introduction to both subjects. In year three you may choose optional modules from a wide range in mathematics, statistics and other subjects (e.g. a language or social science). In year four you will undertake a major project. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

Mathematics and Statistical Science BSc

UCAS: GG13 • 3 years

A levels: A**A, or A*A and a 1 in any STEP paper or distinction in Mathematics AEA. Mathematics and Further Mathematics required at A*, or Mathematics at A* and Further Mathematics at A if STEP or AEA offered. Standard GCSE offer (see page 31).

IB Diploma: 39-40 points. 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: see www.ucl.ac.uk/otherquals

This three-year programme is designed for students with an interest in the powerful applications of statistics who also wish to develop their mathematical knowledge and explore the interactions between the two subjects. No previous knowledge of statistics is required.

In years one and two a balanced selection of compulsory modules in mathematics and statistics provides a foundation in both subjects. Statistics will include much practical work while mathematics will cover the theoretical aspects of the pure mathematics required to sustain and understand this. In year three you may choose from a range of optional modules over both subjects, and more widely across UCL. The programme is also offered as a four-year MSci.
Our programmes offer you the flexibility to combine science subjects into a structured and coherent degree. Exploiting the overlaps between traditional scientific disciplines such as physics, chemistry, Earth sciences and life sciences, natural sciences allows you to specialise or maintain a broad study base.

**Subject overview**

- **Total intake**: 139
  - (2017 entry)
- **Applications per place**: 4
  - (2016 entry)
- **Research Excellence Framework (REF)**: Interdisciplinary programme; see contributing departments

**First career destinations (2013–2015)**
- Technical Consultant, IBM
- Operations Analyst, J.P. Morgan
- Surface Transport Graduate, Transport for London
- Full-time student, PhD in Mathematics, Genomics and Medicine at the University of Cambridge
- Management Consultant, BCG

**Contact details**

Miss Charlotte Pearce  
(Programme Manager)  

- [e natsci@ucl.ac.uk](mailto:natsci@ucl.ac.uk)  
- +44 (0)20 7679 0649

For more information, including programme structure visit:  
[www.ucl.ac.uk/prospectus/natsci](http://www.ucl.ac.uk/prospectus/natsci)

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**Natural Sciences MSci**

**UCAS**: FGC0 • 4 years

- **A levels**: A*AA-AAA. Any two subjects from Biology, Chemistry, Geology, Mathematics or Physics. Standard GCSE offer (see page 31).
- **IB Diploma**: 38-39 points. A score of 18-19 points in three higher level subjects including two from Biology, Chemistry, Mathematics or Physics, with no score lower than 5.

**Other qualifications**: see [www.ucl.ac.uk/otherquals](http://www.ucl.ac.uk/otherquals)

This four-year programme offers an additional year of study on top of the Natural Sciences BSc. Students have the opportunity to deepen and extend their knowledge by taking advanced optional modules and completing a major project.

Years one, two and three follow the structure of the Natural Sciences BSc, with core modules providing a good grounding in your chosen two streams and optional modules becoming available from year two onwards. In year four you will take only modules from your major stream, plus optional modules. You will also undertake a major research project.

**The following streams are offered:**

- Astrophysics
- Biomedical Sciences
- Earth and Environment
- Genetics, Evolution and Environment
- Geophysical Sciences
- History and Philosophy of Science
- Inorganic and Materials Chemistry
- Mathematics and Statistics
- Medical Physics
- Molecular and Cell Biology
- Neuroscience and Psychology
- Organic Chemistry
- Physical Chemistry
- Physics
- Policy, Communication and Ethics

Please note that specific streams may have prerequisites of particular grades and/or subjects at A level or equivalent. The list of streams may be subject to change. Some combinations may not be allowed on academic grounds or due to timetable constraints. Please see the Prospectus website for further details.
In science, my passions are split between biology and mathematics. UCL is one of very few universities in the country that allows you to split your studies in this way. As a Jewish student, I was also drawn to UCL by the fact that its founding was inspired by Jeremy Bentham, who supported the idea of UCL as a secular university. This established UCL’s inclusive, non-discriminatory outlook, which is fundamental for a modern university.

My favourite part of Natural Sciences is the interdisciplinary outlook it gives on science. All of the ground-breaking research and technological advances happening today stem from this outlook, and this programme allows you to explore the links between disciplines. The facilities are full of everything from centrifuges to gel imaging systems to really fantastic pipettes! UCL labs also really contribute to your understanding.

Daniel Jacobson
Natural Sciences MSci
Second Year

“In science, my passions are split between biology and mathematics. UCL is one of very few universities in the country that allows you to split your studies in this way. As a Jewish student, I was also drawn to UCL by the fact that its founding was inspired by Jeremy Bentham, who supported the idea of UCL as a secular university. This established UCL’s inclusive, non-discriminatory outlook, which is fundamental for a modern university.

My favourite part of Natural Sciences is the interdisciplinary outlook it gives on science. All of the ground-breaking research and technological advances happening today stem from this outlook, and this programme allows you to explore the links between disciplines. The facilities are full of everything from centrifuges to gel imaging systems to really fantastic pipettes! UCL labs also really contribute to your understanding.”
From the everyday technology of flat-screen televisions to theories on the origin of the universe, the principles of matter, energy, space and time explored in physics and astrophysics are fundamental to our lives. Our accredited degrees develop rigorous and creative problem-solving skills, preparing you for an exciting career.

Astrophysics MSci
UCAS: F511 • 4 years

**A levels**: AAA. Mathematics and Physics required. Standard GCSE offer (see page 31).

**IB Diploma**: 38 points. A total of 18 points in three higher level subjects including Mathematics and Physics at grade 6, with no score below 5.

**Other qualifications**: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year of study on top of the Astrophysics BSc, during which students have the opportunity to specialise further by taking advanced optional modules, and undertaking a research project.

Years one, two and three follow the structure of the Astrophysics BSc, giving you a good grounding in mathematics and classical and quantum physics. From year two onwards you will choose from a wide range of optional modules in physics and astronomy according to your interests (e.g. Astrobiology, Quantum Mechanics). In year four you will also undertake a compulsory research project, typically in astrophysics. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

Astrophysics BSc
UCAS: F510 • 3 years

**A levels**: AAA. Mathematics and Physics required. Standard GCSE offer (see page 31).

**IB Diploma**: 38 points. A total of 18 points in three higher level subjects including Mathematics and Physics at grade 6, with no score below 5.

**Other qualifications**: see www.ucl.ac.uk/otherquals

Astrophysics makes demands across a broad frontier of technologies: materials science, optics and electronics. This three-year programme teaches students to apply their knowledge of physics to astronomical observation and to the interpretation of the data and images obtained.

Years one and two provide a grounding in mathematics and classical and quantum physics. From the three years the focus of your study will shift towards astronomy and astrophysics (e.g. Astronomical Spectroscopy, Interstellar Physics), and from year two onwards you will be able to choose optional modules to supplement your core modules (e.g. Astrobiology, Nuclear and Particle Physics). The programme is also offered as a four-year MSci; we advise you to apply for the MSci initially as this offers more flexibility.
Physics and Astrophysics
www.ucl.ac.uk/prospectus/physics

All degrees offered by UCL Physics & Astronomy are accredited by the Institute of Physics.

Physics and Astronomy

Physics MSci
UCAS: F303 • 4 years
A levels: AAA. Mathematics and Physics required. Standard GCSE offer (see page 31).
IB Diploma: 38 points. A total of 18 points in three higher level subjects including Mathematics and Physics at grade 6, with no score below 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year of study on top of the Physics BSc, during which students have the opportunity to specialise further by taking advanced optional modules, and undertaking a research project.

Years one, two and three follow the same structure as the Physics BSc, providing a firm grounding in the subject and a basis upon which to specialise in later years. Year four comprises a compulsory research project, and you will take five advanced modules from a wide range of options (e.g. Advanced Quantum Theory, Atom and Proton Physics, Space Plasma and Magnetospheric Physics). We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

Physics BSc
UCAS: F300 • 3 years
A levels: AAA. Mathematics and Physics required. Standard GCSE offer (see page 31).
IB Diploma: 38 points. A total of 18 points in three higher level subjects including Mathematics and Physics at grade 6, with no score below 5.
Other qualifications: see www.ucl.ac.uk/otherquals

When we turn on a light or check the weather forecast, we are reaping the practical benefits of physics research. As well as exploring fundamental science, this BSc goes to the cutting edge of technologies that affect everyday life, equipping you with the tools and imagination to address tomorrow’s questions.

Year one provides a firm foundation in quantum and classical physics, underpinned by mathematics and computing skills training. In years two and three you will follow modules in quantum physics and its application to atoms and molecules, statistical thermodynamics, electromagnetic theory, and further mathematics. You will also undertake practical work, and choose optional modules from a wide range of physics topics. The programme is also offered as a four-year MSci; we advise you to apply for the MSci initially as this offers more flexibility.

Steven Vuong
Physics MSci
Second Year

“My favourite part of the programme is labs! We put into use the theory we learn in lectures, and we have replicated famous experiments that led to significant discoveries, such as the Michelson-Morley experiment. It encourages us to collaborate and can be very social.

UCL is very supportive of innovation and enterprise – there is a lot of potential for development. UCL ChangeMakers is also brilliant.”
UCL has one of the best astrophysics programmes in the country and even has its own observatory in north London.

James Macey • Portfolio Manager, Allianz Global Investors, New York

Theoretical Physics MSci
UCAS: F345 • 4 years

A levels: AAA. Mathematics, Physics and Further Mathematics required. Standard GCSE offer (see page 31).
IB Diploma: 38 points. A total of 18 points in three higher level subjects including Mathematics and Physics at grade 6, with no score below 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme offers an additional year of study on top of the Theoretical Physics BSc, during which students have the opportunity to specialise further by taking advanced optional modules, and undertaking a research project.

Years one, two and three follow the same structure as the Theoretical Physics BSc, providing a firm grounding in the subject and a basis upon which to specialise in later years, as well as specialised theory modules. Year four comprises a compulsory research project, and you will take five advanced modules from a wide range of options pertaining to your speciality. We advise you to apply for the MSci initially, as transfer to the BSc is possible during the first three years.

Theoretical Physics BSc
UCAS: F340 • 3 years

A levels: AAA. Mathematics, Physics and Further Mathematics required. Standard GCSE offer (see page 31).
IB Diploma: 38 points. A total of 18 points in three higher level subjects including Mathematics and Physics at grade 6, with no score below 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This three-year programme offers a variant of the advanced study offered in the Physics BSc. You will develop specialised knowledge of the theoretical structure of the core topics in physics. The programme is likely to appeal to you if you have a strong interest and ability in mathematics.

Year one provides a firm foundation in quantum and classical physics, underpinned by mathematics and computing skills training. In years two and three you will follow modules in quantum physics and its application to atoms and molecules, statistical thermodynamics, electromagnetic theory, and further mathematics. You will also undertake theoretical work, and choose optional modules from a wide range of physics topics. The programme is also offered as a four-year MSci; we advise you to apply for the MSci initially as this offers more flexibility.
Science and Technology Studies

www.ucl.ac.uk/prospectus/sts

Science and technology studies provides you with an understanding of science and technology, their developers and users, and the worlds they inhabit and shape. You will learn to ask and answer questions about the nature of science and technology and the ways in which they interact with, and reflect, the world around them.

Subject overview

Total intake: 30
(2017 entry)
Applications per place: 4
(2016 entry)
Research Excellence Framework (REF)
82%: History subjects; 75%: Philosophy
subjects rated 4* ('world-leading') or 3*
('internationally excellent')

First career destinations (2013–2015)
• Full-time student, MSc in
  Science Communication at Imperial
  College London
• Lead Games Tester, HCL Technologies
• Research and Marketing Project
  Manager, Nasmyth Group
• Investor Relations Support, Vectura
• Auditor, Deloitte

Contact details
Dr Carina Fearnley
(Undergraduate Admissions Tutor)
e sts-admissions@ucl.ac.uk
t +44 (0)20 7679 1328

For more information, including
programme structure visit:
www.ucl.ac.uk/prospectus/sts

History and Philosophy
of Science BSc

UCAS: V550 • 3 years

A levels: AAB-ABB. No specific
subjects. Standard GCSE offer
(see page 31).
IB Diploma: 34-36 points. A score
of 16-17 points in three higher level
subjects, with no score lower than 5.
Other qualifications:
see www.ucl.ac.uk/otherquals

This degree investigates the history
of science from antiquity to the
present and globally. The goal is to
better understand science's many
methods, fundamental concepts,
logic, and ethics. Another goal is
to build a broad perspective on the
origins of science and its role in our
modern world.

Our degrees follow a common first
year whereby students on each
degree take the same modules.
This provides a solid foundation for
everyone and gives you flexibility.
Beyond year one, your degree
builds with a few compulsory
modules including a dissertation,
plus a supporting group of optional
modules in the department and
across UCL. These include options
in contemporary science policy,
public engagement and science
communication, sociology of
science and science policy.

Science and Society BSc

UCAS: L391 • 3 years

A levels: AAB-ABB. No specific
subjects. Standard GCSE offer
(see page 31).
IB Diploma: 34-36 points. A score
of 16-17 points in three higher level
subjects, with no score lower than 5.
Other qualifications:
see www.ucl.ac.uk/otherquals

This degree explores science
in its varied and complex forms
and we train you to study science
and scientists as part of modern
society. We combine science policy,
ethics, and governance, science
communication, and sociology of
modern science and technology.
UCL is unique in the UK in offering
this BSc.

Our degrees follow a common first
year whereby students on each
degree take the same modules.
This provides a solid foundation for
everyone and gives you flexibility.
Beyond year one, your degree builds with a few compulsory modules including a dissertation, plus a supporting group of optional modules in the department and across UCL.
These include options in history of modern science and medicine, science, art and philosophy, science and global history, and philosophy of information.
In an age where vast amounts of information can be gathered, skills in statistics are highly valued and can be applied across diverse fields. Informed identification of what data to collect and how to collect them efficiently, together with expert analysis and interpretation, enables statisticians to provide reliable answers and forecasts.

Statistics BSc

UCAS: G300 • 3 years

A levels: A*AA-AAA. A* in Mathematics, or AA in Mathematics and Further Mathematics, is required. Applicants offering A*AB including A*A in Mathematics and Further Mathematics respectively will also be considered. Standard GCSE offer (see page 31).

IB Diploma: 38-39 points. A score of 18-19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.

First career destinations (2013–2015)

- Graduate Trainee, Canopius
- Actuarial Trainee, PwC
- Full-time student, MSc in Applied Statistics at the University of Oxford
- Full-time student, MSc in Risk Management and Financial Engineering at Imperial College London
- Analyst, Deloitte

Statistical Science (International Programme) MSci

UCAS: G305 • 4 years

A levels: A*AA-AAA. A* in Mathematics or AA in Mathematics and Further Mathematics required. Standard GCSE offer (see page 31).

IB Diploma: 38-39 points. A score of 18-19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.

Other qualifications: see www.ucl.ac.uk/otherquals

This four-year programme provides an advanced education in statistics together with experience of education in a different cultural and/or linguistic setting, which will broaden your horizons and prepare you for a variety of careers that have a special emphasis on international expertise.

In years one and two you may follow the structure of the Statistics BSc, the Statistics, Economics and Finance BSc, the Statistics, Economics and a Language BSc, or the Mathematics and Statistical Science BSc (subject to entry requirements, please see page 136). The third year is spent at a university abroad. We currently have links with institutions in Australia, Canada, Germany, Italy, Singapore and the USA. In year four you will return to UCL to undertake advanced project work and optional modules.

Subject overview

<table>
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<tr>
<th>Total intake</th>
<th>115</th>
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<tr>
<td>(2017 entry)</td>
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</table>

| Applications per place | 9 |
| (2016 entry) |     |

Research Excellence Framework (REF)

82% rated 4* ('world-leading') or 3* ('internationally excellent')

First career destinations (2013–2015)

- Graduate Trainee, Canopius
- Actuarial Trainee, PwC
- Full-time student, MSc in Applied Statistics at the University of Oxford
- Full-time student, MSc in Risk Management and Financial Engineering at Imperial College London
- Analyst, Deloitte

Contact details

Dr Giampiero Marra (Admissions Tutor)
ed undergraduate-admissions@ucl.ac.uk
t +44 (0)20 3370 1215

Dr Elinor Jones (Admissions Tutor)
ed undergraduate-admissions@ucl.ac.uk
t +44 (0)20 3370 1215

For more information, including programme structure visit: www.ucl.ac.uk/prospectus/statsci
All undergraduate programmes offered by UCL Statistical Science are accredited by the Royal Statistical Society (subject to module choice).

Statistics, Economics and Finance BSc
UCAS: GLN0 • 3 years
A levels: A*AA-AAA. A* in Mathematics or AA in Mathematics and Further Mathematics required. Standard GCSE offer (see page 31).
IB Diploma: 38-39 points. A score of 18-19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

This programme combines a thorough training in statistics with modules in economics and finance. The different components of the degree programme reinforce one another to provide a coherent and wide-ranging foundation in modern quantitative techniques useful for a career in finance.

Year one provides a grounding in mathematics, statistics and some computing, in preparation for an increasing focus on statistics in later years. The economics and finance components include a foundation in micro- and macroeconomics and financial accounting. In years two and three you may choose optional modules from a wide range both within UCL Statistical Science (e.g. Forecasting, Social Statistics) and in other disciplines (e.g. a language or social science).

Statistics, Economics and a Language BSc
UCAS: GLR0 • 3 years
A levels: A*AA-AAA. A* in Mathematics or AA in Mathematics and Further Mathematics required. Standard GCSE offer (see page 31).
IB Diploma: 38-39 points. A score of 18-19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.
Other qualifications: see www.ucl.ac.uk/otherquals

At a time of globalisation of business and finance, the ability to communicate in a foreign language can significantly enhance your career prospects. This BSc combines a thorough training in statistics with modules in economics and the study of a foreign language (Arabic, French, German, Italian, Japanese, Mandarin or Spanish).

Year one provides a grounding in mathematics, statistics and some computing, in preparation for an increasing focus on statistics in later years. The economics component includes a foundation in micro- and macroeconomics. You will also nominate one or two languages to study (the starting level is flexible and will depend on your proficiency). In years two and three you will have the opportunity to choose optional modules from a wide range both within UCL Statistical Science and in other disciplines, and also continue with your language(s).
Statistics and Management for Business BSc

UCAS: GN32 • 3 years

A levels: A*AA-AAA*A*AB. A* in Mathematics, or AA in Mathematics and Further Mathematics, is required. Applicants offering A*AB including A*A in Mathematics and Further Mathematics respectively will also be considered. Standard GCSE offer (see page 31).

IB Diploma: 38-39 points. A score of 18-19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.

Other qualifications: see www.ucl.ac.uk/otherquals

This programme, run jointly with the UCL School of Management, combines a thorough training in statistics with modules in the broad area of business studies. It aims to provide a combination of management and quantitative skills useful for a career in business, management, commerce or industry.

About half your modules are taken in statistics and mathematics; the other half are in management, accountancy, finance and (optionally) economics. Years one and two provide a solid foundation in statistics, mathematics and management. A wide range of options (e.g. International Business, Law for Managers, Probability, Social Statistics) are available from year two onwards, allowing you to specialise according to your interests.

Economics and Statistics BSc (Econ)

UCAS: LG13 • 3 years

A levels: A*AA-AAA. A* in Mathematics or AA in Mathematics and Further Mathematics required. Standard GCSE offer (see page 31).

IB Diploma: 38-39 points. A score of 18-19 points in three higher level subjects including grade 7 in Mathematics, with no score lower than 5.

Other qualifications: see www.ucl.ac.uk/otherquals

This programme, run jointly with UCL Economics, combines an in-depth study of economics and econometrics with a solid grounding in mathematical and statistical methods. The programme is suitable for students of high mathematical ability who are considering a career in finance, business or industry.

In years one and two compulsory modules in statistics, economics and mathematics provide an all-round grounding in both economics and statistics and a basis for further specialisation. In year three all modules are optional, chosen from a wide range offered in both economics (including econometrics, economics of finance and game theory) and statistics (e.g. forecasting, medical statistics, social statistics and stochastic methods in finance).

Lily Spencer
Statistics BSc
Third Year

“I'm of the first generation in my family to go to university, so there was never any pressure to apply. I discovered my love of statistics whilst studying Further Mathematics A level and decided to see how I could develop this more. UCL is a top university and the statistics programme appealed to me massively – in fact it was my only choice when I applied.

I enjoy the diversity of teaching within the subject of statistics. No two modules feel the same so it's never boring. I have particularly enjoyed Stochastic Systems and Medical Statistics. I'm also loving my project as it is giving me a glimpse of how I can use my statistics knowledge in the real world.

The department has been so supportive and helpful every step of my degree so far. I've always had someone to turn to and my progress has dramatically improved from first to second year due to the support I received. They don't let you slip under the radar and this is really important in making me feel like I matter and they want what's best for me.”

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