CHEMISTRY BSc / UCAS CODE: F100
2020 ENTRY

www.ucl.ac.uk/prospectus
Chemistry BSc

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.

Key information

Programme starts
September 2020

Location
London, Bloomsbury

Degree benefits

- Consistently regarded as one of the best chemistry departments in the UK, we offer you an excellent education with high standards of teaching.
- You will benefit from our outstanding research profile as you are taught by lecturers who are experts in a wide range of chemistry-related fields.
- The wide range of optional modules enables you to develop your interests both within and outside chemistry, giving you a broad skills and knowledge base to offer potential employers.
- We offer access to state-of-the-art facilities, enhanced by our strong affiliation to other centres of excellence such as the London Centre for Nanotechnology.

Accreditation

The Royal Society of Chemistry accreditation is a peer review process founded on the judgement of professional chemists. It provides a structured mechanism to assess, evaluate, and enhance the quality of degree programmes and demonstrates a commitment to continuous improvement.

Degree structure

In each year of your degree you will take a number of individual modules, normally valued at 15 or 30 credits, adding up to a total of 120 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 30-credit module is considered equivalent to 15 credits in the European Credit Transfer System (ECTS).

Chemistry is offered either as a three-year BSc or as a four-year MSci. The first two years of study are identical, so you can defer which to opt for until the end of your second year. We advise you to select the four-year MSci programme initially as this keeps more options open.

In the first year, all students take the module 'Introduction to Chemical Principles'. This serves to consolidate A level (or equivalent) Chemistry and generate an awareness of modern chemistry as an integrated whole. Along with your optional modules, you will also take a module in mathematics that's appropriate to your ability.

In the second year, the three main themes of chemistry are again developed in individual modules, leaving you free to choose two options, which can be either chemical or non-chemical.

In the third year you will have considerable scope to develop your own portfolio of interests, through the choice of optional modules and experimental work.

YEAR ONE

Core or compulsory module(s)

- Basic Inorganic Chemistry
- Basic Organic Chemistry
- Basic Physical Chemistry
- Introduction to Chemical Principles
- Chemical Skills

Optional modules

- You will select a number of optional modules, including:
  - A Mathematics module appropriate to your level of qualification.
  - Further options typically taken by chemistry students include:
    - Physics for Chemists
    - Biology
    - Human Physiology
    - Introduction to Earth Sciences
    - Introduction to Management
    - Languages
    - Mathematics (further calculus)
    - Physics of the Universe

YEAR TWO

Core or compulsory module(s)

- Principles of Inorganic Chemistry
- Principles of Organic Chemistry
- Principles of Physical Chemistry

Optional modules

- You will select further optional modules. Options include:
  - Chemical Dynamics
  - Chemistry of Materials
  - Reaction Mechanisms in Chemical and Biological Systems
  - Plus further modules from a wide range in other subjects such as physiology, history & philosophy of science, management, languages, mathematics, computer programming and physics.
FINAL YEAR

Core or compulsory module(s)

- Advanced Practical Chemistry - Synthesis, Instrumental and Computational
- Advanced Topics in Physical Chemistry
- Principles and Methods of Organic Synthesis
- Literature Project

Optional modules

- You will select optional modules from a wide range of Chemistry and other approved undergraduate options. Chemistry options may include:
  - Biological Chemistry/Biological Macromolecules
  - Concepts in Computational Chemistry
  - Inorganic Rings, Chains and Clusters
  - Organometallic Chemistry
  - Pathways, Intermediates and Function in Organic Chemistry
  - Principles of Drug Design
  - New Directions in Materials Chemistry

Your learning

Your learning will combine lectures, practical classes and group workshops. In addition you will attend tutorials in groups of four to six students which provide specialised support for the core modules.

Assessment

Each module will usually involve at least two methods of assessment. These may include coursework (problem sheets, essays or poster presentations), an examination, or laboratory classes. We believe in providing feedback to students, such as face-to-face marking in laboratories. Your third-year project will be assessed through a written report.

Your career

As a UCL Chemistry graduate you will have developed both discipline-based and highly sought after analytical skills, for example in logical thought and numeracy.

On completion of your degree you will have the obvious option of pursuing a career within the chemical industry. This is recognised as one of the most exciting and successful contributors to the UK economy, for example in the pharmaceutical, biotechnology and nanotechnology sectors.

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.

Together with essential academic requirements, we are looking for strong evidence in your personal statement of your interest in the subject and your understanding of it. These requirements may be evidenced by examples of project work, relevant work experience or, perhaps, through your knowledge of current events involving chemistry. We also look for your ability to communicate clearly in English.
Entry requirements

A LEVELS
Standard Offer: AAA. Chemistry and one of Biology, Physics or Mathematics required.

Contextual Offer: AAB. Grades AA in Chemistry and one of Biology, Physics or Mathematics required.

GCSE
English Language at grade C or 5, plus Mathematics at grade B or 6. 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
Standard Offer: 38 points. A score of 18 points in three higher level subjects including 6 in Chemistry and 6 in one of Biology, Physics or Mathematics, with no score lower than 5.

Contextual Offer: 36 points. A score of 17 points in three higher level subjects including 6 in Chemistry and 6 in one of Biology, Physics or Mathematics, with no score lower than 5.

CONTEXTUAL OFFERS – ACCESS UCL SCHEME
As part of our commitment to increasing participation from underrepresented groups, students may be eligible for a contextual offer as part of the Access UCL scheme. For more information see www.ucl.ac.uk/prospectus

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)
UCL 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 2019/20 academic year. The UK/EU fees shown are for the first year of the programme at UCL only. Fees for future years may be subject to an inflationary increase. The Overseas fees shown are the fees that will be charged to 2019/20 entrants for each year of study on the programme, unless otherwise indicated below.

// UK & EU: £9,250 (2019/20)
// Overseas: £26,740 (2019/20)

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

Additional costs
None. Free access to electronic copies of over 100 textbooks. Free laboratory coats.

FUNDING
UCL Chemistry offers a number of scholarships which will be advertised on the departmental website as appropriate.

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 Dejan-Kresimir Bucar
Email: admissions.chem@ucl.ac.uk
Telephone: +44 (0)20 7679 4511
Department: Chemistry

Brexit
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/brexit

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