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.

**Key information**

**Programme starts**
September 2019

**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 MSc allows you to study more advanced topics and to work on an extended research project within one of our internationally renowned research groups.
- We offer access to state-of-the-art facilities, enhanced by our strong affiliation with other centres of excellence such as the London Centre for Nanotechnology.

**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).

This programme 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 initially as this keeps more options open.

The chemistry content directly follows that of the single-subject Chemistry programme. 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 component takes up around 25% of the whole programme. Compulsory half-credit modules include Foundations of Management, and Business in a Competitive Environment and in year three you will choose one optional module from Mastering Entrepreneurship, Marketing Communication and Law for Managers, amongst others.

In the third year you will undertake a literature project and in the final year a chemical research project together with optional modules, allowing you to specialise in the field of chemistry of your choice.

**YEAR ONE**

<table>
<thead>
<tr>
<th>Core or compulsory module(s)</th>
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<tbody>
<tr>
<td>Basic Inorganic Chemistry</td>
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<td>Basic Organic Chemistry</td>
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<tr>
<td>Basic Physical Chemistry</td>
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<tr>
<td>Foundations of Management</td>
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<tr>
<td>Introduction to Chemical Principles</td>
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<tr>
<td>Introductory Statistical Methods and Computing</td>
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<table>
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<tr>
<th>Optional modules</th>
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<tr>
<td>You will select a Mathematics module appropriate to your level of qualification to the value of 0.5 credits.</td>
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**YEAR TWO**

<table>
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<tr>
<th>Core or compulsory module(s)</th>
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<tr>
<td>Business in a Competitive Environment</td>
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<td>Management Information and Control</td>
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<tr>
<td>Principles of Inorganic Chemistry</td>
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<tr>
<td>Principles of Organic Chemistry</td>
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<td>Principles of Physical Chemistry</td>
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<tr>
<th>Optional modules</th>
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<tr>
<td>All second year modules are compulsory.</td>
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YEAR THREE
Core or compulsory module(s)
- Advanced Topics in Inorganic Chemistry
- Advanced Topics in Physical Chemistry
- An Introduction to Research Methods
- Literature Project
- Principles and Methods of Organic Synthesis
- Project Management

Optional modules
- You will select a Management option to the value of 0.5 credits. Options may include:
  - Corporate Financial Strategy
  - E-Business Environment and Management
  - Entrepreneurship: Theory and Practice
  - Fraud, Ethics and Forensic Accounting
  - International Business
  - Law for Managers
  - Marketing Communications
  - Mergers and Valuation
  - Operations and Technology Management
  - Organisational Change

FINAL YEAR
Core or compulsory module(s)
- Advanced Chemical Research Project

Optional modules
- You will select 1.0 credit from advanced chemistry options, 1.0 credit of advanced mathematics options, and 1.0 credit of advanced management options. Chemistry options may include:
  - Biological Chemistry/Biological Macromolecules
  - Concepts in Computational and Experimental Chemistry
  - Inorganic Rings, Chains and Clusters
  - New Directions in Materials Chemistry
  - Numerical and Analytical Methods
  - Pathways, Intermediates and Function in Organic Chemistry
  - Principles of Drug Design
  - Organometallic Chemistry
  - Structural Methods in Modern 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
Modules usually involve at least two methods of assessment; coursework (problem sheets, essays or poster presentations), an examination, or lab classes. Feedback, such as face-to-face marking in laboratories, is always provided. Your final year project will be assessed through a written report, a presentation and an oral examination.

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.

First career destinations of recent graduates (2013-2015) of this programme at UCL include:
- Project Manager, Melec Powergen Inc
- Analyst / Implementation Lead, Enterprise AMS Group
- Full-time student, DPhil in Organic Chemistry at the University of Oxford

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.

UK-based applicants who demonstrate their potential to meet our academic requirements will be invited to visit UCL for a day. The day will include talks, the opportunity to meet current students and a tour of the department and UCL. You will also attend a university-level lecture.
Entry requirements

A LEVELS
Standard Offer: AAA. Chemistry and either one science subject or Mathematics required.

Contextual Offer: AAB. AA in Chemistry and either one science subject 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. A score of 18 points in three higher level subjects including 6 in Chemistry and 5 in either a science subject or Mathematics, with no score lower than 5.

Contextual Offer: 36. A score of 17 points in three higher level subjects including 6 in Chemistry and 5 in either a science subject 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/ug-reqs

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
If you are concerned by potential additional costs for books, equipment, etc. on this programme, please get in touch with the relevant departmental contact (details given on this page).

FUNDING
UCL Chemistry offers a number of scholarships, including the Bader Bursaries, GSK Bursary, UCL Chemistry Entrance Scholarships and the Kathleen Lonsdale Bursary.

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

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/ucl-and-europe

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