CHEMICAL RESEARCH MSc / 2019/20 ENTRY

www.ucl.ac.uk/graduate/
The principal component of this degree is an intensive novel research project providing 'hands-on' training in methods and techniques at the cutting edge of scientific research. The programme is particularly suitable for those wishing to embark on a research career. This programme is accredited by the Royal Society of Chemistry.

**Degree summary**

Students develop a systematic approach to devising experiments and/or computations and gain familiarity with a broad range of synthetic, analytical and spectroscopic techniques, acquiring skills for the critical analysis of their experimental and computational observations. They also broaden their knowledge of chemistry through a selection of taught courses and are able to tailor the programme to meet their personal interests.

- With departmental research interests and activities spanning the whole spectrum of chemistry, including development of new organic molecules, fundamental theoretical investigations and prediction and synthesis of new materials, students are able to undertake a project that aligns with their existing interests.

- Students develop crucial first-hand experience in scientific methods, techniques for reporting science and using leading-edge research tools, as well as further essential skills for a research career.

The programme is delivered through a combination of lectures, seminars, tutorials, laboratory classes and research supervision. Assessment is through the dissertation, unseen written examinations, research papers, a written literature survey, and an oral examination. All students will be expected to attend research seminars relevant to their broad research interest.

**Accreditation**

This programme is accredited by the RSC and successful completion will count towards eligibility for Chartered Chemist status for students with an appropriate Batchelor level qualification in Chemistry.

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### Degree structure

**Mode:** Full-time: 1 year  
**Location:** London, Bloomsbury

You will undertake Chemistry modules to the value of 180 credits. The programme consists of core literature (30 credits) and research projects (90 credits), and a research and professional skills development module (15 credits) and optional taught modules (45 credits in total). Optional modules are chosen in consultation with your research advisor.

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

#### COMPULSORY MODULES

- All students undertake a literature project (30 credits) and a research dissertation (90 credits), which are linked. In addition students take a module (15 credits) to develop their research and professional skills.

#### OPTIONAL MODULES

- Students choose three optional modules from the following:
  - Advanced Topics in Energy and Environmental Science
  - Advanced Topics in Physical Chemistry
  - Biological Chemistry
  - Concepts in Computational Chemistry
  - Frontiers in Experimental Physical Chemistry
  - Inorganic Rings, Chains and Clusters
  - Intense Radiation Sources in Modern Chemistry
  - Topics in Quantum Mechanics
  - Numerical Methods in Chemistry
  - Pathways, Intermediates and Function in Organic Chemistry
  - Principles of Drug Design
  - Principles and Methods of Organic Synthesis
  - Simulation Methods in Materials Chemistry
  - Stereochemical Control in Asymmetric Total Synthesis

#### DISSERTATION/REPORT

- All students undertake an independent research project which features an oral examination and culminates in submission of an extended dissertation (90 credits).
Your career

This MSc is designed to provide first-hand experience of research at the cutting-edge of chemistry and is particularly suitable for those wishing to embark on an academic career (i.e. doctoral research) in this area, although the research and critical thinking skills developed will be equally valuable in a commercial environment.
Entry requirements
A minimum of a second-class Bachelor's degree in a relevant discipline from a UK university or an overseas qualification of an equivalent standard.

English language proficiency level
If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at:
www.ucl.ac.uk/graduate/english-requirements

Your application
Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:
- why you want to study Chemical Research at graduate level. Please tell us what has led you to research. What were the enjoyable or difficult aspects of your undergraduate projects? Do you have much experience in laboratory work or computing? What are the skills you most need to acquire?
- why you want to study an MSc in Chemical Research at UCL. UCL’s Chemical Research degree is heavily research oriented (50% in terms of credits). Tell us how you will make the most of this opportunity?
- how your academic background meets the demands of a challenging programme: Most applicants for this programme have a first degree in Chemistry. How well did it prepare you for research? What skills do you want to acquire that will help you in a research career?
- how you anticipate that your future career might proceed.

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. Further information can be found at:
www.ucl.ac.uk/prospective-students/graduate/taught/application.

FEES AND FUNDING 2019/20 ENTRY
- UK: £10,720 (FT)
- EU: £10,720 (FT)
- Overseas: £29,220 (FT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Students website.

Students can be self-funded or find sponsorship from funding agencies such as research councils, the European Union, industry or charities.

There are a number of Graduate School Scholarships available. Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE
All applicants: 26 July 2019

Details on how to apply are available on the website at:
www.ucl.ac.uk/graduate/apply

CONTACT
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EU referendum
For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to www.ucl.ac.uk/brexit