Experimental Pharmacology and Therapeutics
MSc /

This programme teaches advanced experimental approaches to dissecting the mechanisms of drug action (pharmacology), a science that has seen innovative theoretical and technical development at UCL for over a century.

Degree summary

In addition to providing experience of both classical and modern pharmacological techniques, the programme will help develop skills for literature search-based data acquisition and analysis; written and verbal communication of science; abstract writing; poster preparation; graphical processing; image preparation for publication; writing a scientific paper; and giving research presentations.

The programme is jointly taught by UCL Neuroscience, Physiology & Pharmacology (Division of Biosciences), and the Research Department of Pharmacology at the UCL School of Pharmacy. Both departments are historically and currently internationally leading in this field, and together provide cutting-edge education in theory, research practice and innovation in pharmacology.

The programme is designed to impart extensive experimental expertise applied to drug development and subsequent therapeutics. The combination of traditional and experimental approaches in pharmacology, coupled with current innovation in therapeutics and drug discovery and development, fosters a unique set of skills, which will enable graduates of the programme to engage in various aspects of pharmaceutical research globally.

The programme is delivered through a combination of lectures, journal clubs, practicals, tutorials and a laboratory project. Student performance is evaluated through formal examination, coursework, and the research project.

Degree structure

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

Students undertake modules to the value of 180 credits. The programme consists of three compulsory modules (75 credits), one optional module (15 credits), and a research project (90 credits).

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.

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<tr>
<th>COMPULSORY MODULES</th>
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<tbody>
<tr>
<td>Investigative Pharmacology</td>
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<td>Molecular Pharmacology</td>
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<td>Practice of Science</td>
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<th>OPTIONAL MODULES</th>
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<td>Students choose one of the following:</td>
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<tr>
<td>Clinical Pharmacology and Therapeutics</td>
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<td>Drug Design and Development</td>
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<td>Neuropharmacology</td>
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<td>Pharmacology of Inflammation</td>
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<td>Receptor Mechanisms</td>
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<td>Synaptic Pharmacology</td>
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<tr>
<td>Translational Neuroscience and Therapeutics</td>
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<td>Advanced Structure Based Drug Design</td>
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<th>DISSERTATION/REPORT</th>
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<td>Students undertake an original research project which culminates in a 15,000-word dissertation and an oral presentation.</td>
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**Your career**

This programme is likely to lead to careers in biomedical sciences, the pharmaceutical and biotechnology industry and clinical laboratories, and extend to clinicians interested in moving towards a scientific career. Students will obtain a thorough knowledge of and practice in pharmacological assessment, drug design and development pathways. It is anticipated that graduates will move onto PhD programmes and/or build careers in industry or clinical investigations through employment as research associates/scientists in the pharmaceutical industry or academia.

**Employability**

The knowledge and transferable skills developed on this programme will be advantageous for those considering employment in any pharmaceutical or healthcare setting, or contemplating further studies in related fields. The programme will also provide excellent training in critical appraisal of complex data, which will transfer well to other disciplines.
Entry requirements

Normally a minimum of an upper second-class UK Bachelor’s degree from a UK university, in life sciences, pharmaceutics, biotechnology or pharmacy, or an overseas qualification of an equivalent standard. Professional or other qualifications obtained by written examinations and approved by UCL, together with at least three years of appropriate professional experience, will also be considered.

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: Good.

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 Experimental Pharmacology and Therapeutics at graduate level
- why you want to study Experimental Pharmacology and Therapeutics at UCL
- what particularly attracts you to this programme
- how your personal, academic and professional background meets the demands of a challenging academic environment
- where you would like to go professionally with your degree

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: £14,040 (FT)
// EU: £14,040 (FT)
// Overseas: £27,040 (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.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

APPLICATION DEADLINE

UK/EU applicants: 26 July 2019
Overseas applicants: 30 June 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