



(MPharm)
Master of Pharmacy

Faculty of Science



MPharm(Hons) Master of Pharmacy

Our programme

The School of Pharmacy and Chemistry has one of the largest undergraduate teaching programmes in Chemical and Pharmaceutical Sciences in the United Kingdom.

There are 27 academic staff with wide-ranging educational, research and industrial expertise in areas including pharmacy practice, pharmaceutical technology, pharmacology and physiology, and pharmaceutical chemistry, as well as teacher practitioners from hospital and community pharmacies. There is a healthy balance of experienced and new younger staff with flourishing research interests. This dynamic academic environment fosters an enthusiasm for learning and supports excellence.

Teaching and assessment

The Master of Pharmacy (MPharm) is designed to provide students with the necessary skills and knowledge of all aspects of medicines, from the design stage through to use in the patient, as well as an in-depth knowledge of disease processes, treatments and disease prevention.

The MPharm degree will be managed, and largely taught, by Kingston University (KU), with part of the course also taught at the medical school of St George's, University of London. We will provide you with a rounded learning experience, drawing on our experience and expertise of teaching healthcare-related subjects from both a scientific and clinically orientated standpoint.

You will gain first-hand experience of the pharmacist's role in the provision of healthcare through regular visits to both hospital and community pharmacies. From Year 1 onwards, you will meet pharmacists at their place of work and familiarise yourself with the day-to-day duties you may encounter as a professional pharmacist.

As the course develops, you will undertake week-long placements, where you will be able to use the knowledge and skills you have acquired to interact with patients, pharmacists and other healthcare professionals.

At KU and St George's, a substantial part of the course will involve the professional and clinical aspects of pharmacy, which will be taught by practising pharmacists and clinicians to ensure that the material covered is relevant and up to date.

Facilities

The modern laboratories and equipment available at Kingston University have recently been enhanced with the addition of a new £420,000 Pharmacy Practice Laboratory. This is a purpose built facility for pharmacy students to practice their skills and boasts 40 dispensing stations, a pharmacy counter, consulting area and the latest computing systems.

Careers

Pharmacy offers an interesting, challenging and flexible career, with excellent employment prospects and opportunities. For some time, the demand for pharmacists has been high, both in the UK and abroad.

Whether you want to work in a community pharmacy, in hospital as part of a healthcare team, in drug development and manufacturing in the pharmaceutical industry or as a researcher/lecturer in academia, your scientific and professional qualification in Pharmacy will give you an excellent grounding.

Accreditation

In 2008 the School of Pharmacy at Kingston University was accredited by the Royal Pharmaceutical Society of Great Britain (RPSGB), a requirement for graduate pharmacists in the UK. It should be noted that gaining the MPharm degree is not a guarantee of registration as a pharmacist.

The preregistration requirements as laid down by RPSGB must also be met. Students graduating with an MPharm degree will be able to proceed to carry out preregistration training in order to meet the registration requirements of the RPSGB. For more information, please contact the School Administrator.

Why study Pharmacy at Kingston University?

- RPSGB-accredited MPharm Degree.
- Kingston is long established as a top teaching university with excellent facilities.
- You will be taught by friendly, enthusiastic staff and will have access to a student support officer who will provide you with help, advice and support.
- Shared teaching with St George's, University of London ensures a clinically-orientated, as well as scientific, course.
- Strong links with a number of hospitals including St George's Healthcare NHS Trust, Kingston Hospital, Royal Marsden Hospital and University Hospital Lewisham and a number of major community pharmacies allow you to experience the role of the pharmacist first-hand, through regular visits and placements.
- Kingston is a lively market town on the River Thames, only 25 minutes by train from central London, with an exciting and varied social and cultural scene.

What you study

The course is offered as a four year full-time degree or as an extended degree (five years including a foundation year) for those students not possessing appropriate science-based qualifications (please contact the School Administrator for more details). Each Year is made up of eight modules, with an option module in Year 3 and a four-module research component in Year 4 incorporating a research project.

Year 1

Year 1 introduces the scientific basis of pharmacy, and develops the skills you will need as a pharmacist, for example, communication skills, word-processing and IT skills. You will also begin your visits to local pharmacies to experience the role of the pharmacist first-hand.

Cell Biology and Introductory Physiology

This module introduces the structure and function of biomolecules, such as proteins and nucleic acids and shows how the structure of organs, tissues and cells relates to their physiological function. This module will also look at selected systems such as the nervous and endocrine system.

Physiology 2

This module looks at how the different organ systems in the body interact and contribute to the maintenance of the whole body. Various systems will be explored, such as the cardiovascular system, the immune system and the renal system.

Pharmaceutical and Biological Chemistry 1 and 2

This module will provide an introduction to organic molecules, reaction mechanisms and physical chemistry relevant to the production of medicinal products. These modules will also train you in modern laboratory techniques.

Pharmaceutics and Microbiology 1 and 2

This module introduces the concepts of the processes to be considered in developing safe and effective medicines. It also provides an introduction to the importance of microbes, both in health and disease, and in product manufacture.

Professional Practice 1 and 2

This module will introduce you to the profession of pharmacy and the role of the pharmacist as a healthcare professional. Legal and ethical considerations in the practice of pharmacy will also be discussed. In these modules, you will gain practical experience of making small-scale pharmaceuticals, such as suspensions and creams, and will learn the principles of the manufacture of medicines and their use. Communication and IT skills will also be further developed.



Year 2

In Year 2, more emphasis will be placed on the different roles of the pharmacist in hospital, community and industrial settings, and legal and ethical issues of practice will be expanded upon. More complex aspects of the pharmaceutical sciences will be explored, such as biomedical targets for drugs and the role of natural products in drug discovery.

Core modules

- Introductory Pharmacology
- Systems Pharmacology 1
- Formulations and Medicines 1
- Formulations and Medicines 2
- Pharmaceutical and Biological Chemistry 3
- Pharmaceutical and Biological Chemistry 4
- Professional Practice 3
- Professional Practice 4

Year 3

Year 3 includes further topics in drug design and discovery, together with advanced techniques in pharmaceutical technology and biotechnology.

Medicines and Therapeutics

This module will focus on new developments in gene therapies, as well as anti-cancer drugs.

Clinical Pharmacy

This module will focus on how pharmacists are involved in the way medicines are used in the treatment of patients. Two weeks of placement in hospital and/or community pharmacy will form part of Year 3.

Core modules

- Drug Design/Medicinal Chemistry
- Professional Practice 5
- Clinical Pharmacy
- Pharmaceutical Technology and Biotechnology
- Medicines and Therapeutics
- Systems Pharmacology 2

Year 4

A major element of Year 4 is the research project and all students will receive tuition in research methods and skills. The project may be either laboratory or pharmacy practice based. A problem-based approach will be used for more advanced teaching in areas such as Clinical Pharmacy and Professional Practice, where students will work as part of a team to find solutions to problems that may be encountered in their professional career.

Core modules

- Advanced Pharmaceutical Technology and Biotechnology
- Professional Practice 6
- Medicines and Therapeutics 2
- Advanced Topics in Clinical Pharmacy
- Research Methods/Project (Double module)
- Research Project (Double module)



Want to know more?
[www.kingston.ac.uk/
pharmacy](http://www.kingston.ac.uk/pharmacy)

Further information

Entry requirements

Typical offer

UCAS points: 300.

Units: to include three A-levels.

Subjects: A-levels: Chemistry (100 points) required plus another science subject.

A minimum of AS Biology is a recommended qualification. General Studies not accepted. Key Skills: points not accepted in tariff.

Plus GCSE (A–C): five subjects including minimum grade C in Chemistry, Biology (or double award Science), English Language, Mathematics or equivalent Key Skills.

Other entry routes

Contact admissions tutor. Access to HE course in Science or other appropriate subject. Mature students welcome. International applicants welcome.

Science foundation year: you can include an extra foundation year within your degree. The year is designed for applicants who lack traditional qualifications or who have not studied the required combination of subjects, and is especially suitable for mature applicants. It is based at Kingston College and gives you the opportunity to develop introductory knowledge and skills to prepare you for the degree you have selected.

Contact details

Course and admissions enquiries

School of Pharmacy and Chemistry
Kingston University

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Kingston upon Thames
Surrey KT1 2EE

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F: +44 (0)20 8417 2497

E: UGScienceAdmissionEnquiries@kingston.ac.uk

Course Director

Dr Simon Carrington

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Accommodation

T: +44 (0)20 8417 3829

Accommodation@kingston.ac.uk

www.kingston.ac.uk/accommodation

Student Funding Service

T: +44 (0)20 8417 3560

www.kingston.ac.uk/studentfunding

Disability and Dyslexia Support Services

T: +44 (0)20 8417 4284/4252

Minicom: +44 (0)20 8417 4447

F: +44 (0)20 8417 4443

www.kingston.ac.uk/disability-and-dyslexia

International Office

T: +44 (0)20 8417 3411

www.kingston.ac.uk/international

UCAS codes

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B230 – 4 years full time

B231 – 5 years (including Foundation year)

Open days

Several open days are held each year.

Please contact the admissions office or visit the University website for more details.

www.kingston.ac.uk/opendays

T: +44 (0)8700 841 347

E: admissions-info@kingston.ac.uk

www.kingston.ac.uk



Want to know more?
[www.kingston.ac.uk/
pharmacy](http://www.kingston.ac.uk/pharmacy)

