



Queen's University
Belfast

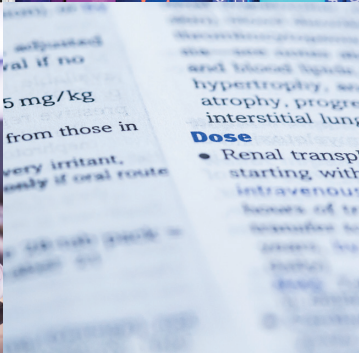
SCHOOL OF
PHARMACY

www.qub.ac.uk/pha

2016

Undergraduate Prospectus

YOUR
CAREER



STARTS
HERE.

We are exceptional

WELCOME



Head of School
Professor David Woolfson

Thinking about joining us at the School of Pharmacy at Queen's? If you do, you will be studying at one of the leading centres worldwide for pharmacy education and research, and joining the Number 1 Pharmacy School in the UK, according to the Times and Sunday Times Good University Guide 2015.

We offer a fully accredited MPharm programme, leading to a career as a registered pharmacist, and our new BSc Pharmaceutical Sciences and Pharmaceutical Biotechnology degrees offer a wide variety of career paths in the industrial and healthcare sectors.

For all programmes, you will be taught by dedicated staff who are leading experts in their field and who are making innovative discoveries to improve the treatment of disease and within healthcare generally.

Our School offers a friendly, caring and supportive environment for your studies. Join us and you can be part of an exciting learning experience, on your road to making future contributions to delivering the health service and health-based industries of the future.

Did you know?

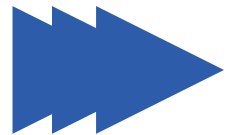
100% of our MPharm graduates passed this year's Pharmaceutical Society of Northern Ireland registration exam.

OUR TEACHING

 Exceptional teaching creates a perfect learning environment, allowing me to achieve my full potential 

Aaron Hutton, third year
MPharm student and
Queen's Scholar

Turn over for
info on our
exceptional
courses



Pharmacy

MPharm Honours (4 years)

Course code

University code: Q75 QBELF

Course code: B230



Entrance Requirements

A-level: AAB including A-level Chemistry and at least one other A-level from Biology, Mathematics or Physics + GCSE Biology or Double Award Science + GCSE Mathematics. Note: Biology to at least AS preferred.

Mature Students: The same requirements as listed above apply.

Graduate Applicants: A minimum of an Upper Second Class Honours degree preferably in a relevant subject. Those with an Upper Second Class Honours degree in a non-relevant subject may be considered if they have the appropriate science background at GCSE and A-level. Applicants who are completing their degree should note that performance in the penultimate year of their degree will be taken into account at shortlisting. Shortlisted applicants will be required to attend an interview as part of the selection process.

Other Qualifications: contact the Admissions and Access Service for advice.

International Applicants: Slightly different requirements apply; check the School website for details. Canadian and Australian High School qualifications are also welcomed.

For students whose first language is not English: An IELTS score of 6.5 with a minimum of 6.0 in each test component or an equivalent acceptable qualification, details of which are available at: <http://go.qub.ac.uk/EnglishLanguageReqs>

Information for all applicants: As a result of current legislative requirements any offer made will be conditional on a satisfactory criminal history check (Access NI Enhanced Disclosure Check). To enable the University to request this check you will be required to provide some personal information which will be treated in the strictest of confidence and in line with Data Protection Principles. The current cost of an Enhanced Disclosure Check is £30. At time of publishing the relevant legislation is under review and it is possible that in the future the vetting requirements and costs will change. Applicants who receive offers will be advised of the relevant requirements at the appropriate time. For international students, a Certificate of Good Conduct or equivalent will be required in lieu of an Access NI check.

Contact

Entrance requirements

E: admissions@qub.ac.uk
T: +44 (0)28 9097 3838

Course information

Dr Dan Corbett
School of Pharmacy
T: +44 (0)28 9097 5812
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W: www.qub.ac.uk/pha



@pharmacyatqub

The Subject

Pharmacy is concerned with the design, evaluation, production and use of medicines and is based on the chemical, biological and medical sciences as the foundation for clinical and community practice. Pharmacists have the ability and opportunity to monitor and optimise the therapeutic use of medicines by patients. In order to communicate confidently and effectively with patients, pharmacists must also have a knowledge of the social and behavioural aspects of health care. All of these facets are addressed and integrated in this undergraduate degree.

Course Content

Level 1

All students take six modules: the first provides an introduction to pharmaceutical microbiology including aspects of disinfection and sterilisation with a second module providing an introduction to the principles of physical and analytical chemistry of importance in pharmaceutical systems.

The third module is split into two parts, the first providing a foundation in the essential skills for the practice of pharmacy and the second part providing an introduction to the development of a pharmaceutical product from concept to clinic, and the roles of the pharmacist in this process.

A chemistry module covers important aspects of organic and bio-organic chemistry including structure determination, chemical reactivity and mechanistic aspects. Finally, two physiology modules cover the principles of general physiology and histology as well as an introduction to systemic pathophysiology.

Level 2

This year provides further development of understanding of basic sciences related to pharmacy and an introduction to some professional aspects of handling and interpretation of prescriptions.

Six modules are studied: one covers the basic principles of drug action; a second, complementary module provides an introduction to the clinical application of therapeutic substances, and two modules are concerned with medicinal substances and deal with analytical methods used to determine the relationships between structure and function of drug molecules. Finally, a double-module deals with formulation/dispensing of drug products, drug stability and some industrial manufacturing processes.

Levels 3 and 4

The professional and clinical aspects of the final two years reflect the increasing involvement of pharmacists in discussing patient medication with prescribers in primary and secondary care. Students also continue to study the pharmaceutical sciences.

Level 3 topics include applied pharmaceutical analysis, drug design and drug delivery, pharmaceutical biotechnology, pharmaceutical legislation, clinical therapeutics, and pharmacy practice.

Level 4 topics include business, government and industry; infectious diseases, treatment and prevention; pharmacist prescribing, advanced pharmaceutical care, responding to symptoms, and social and behavioural aspects of pharmacy. Students also carry out a research project.

Special features

Placement

A feature of this MPharm degree is an increasing experience of the clinical environment through inclusion of clinical placements.

Accreditation

The degree is accredited by the General Pharmaceutical Council (GPhC) in Great Britain and the Pharmaceutical Society of Northern Ireland (PSNI), as the relevant regulators.

Careers/Further Study

Following successful completion of the degree, all graduates intending to register to practise as pharmacists are required to complete satisfactorily a one-year period of pre-registration training under conditions approved by the regulator, followed by a registration examination. Pre-registration training may be in Great Britain or Northern Ireland, with the registration examination of the relevant regulator. Qualified pharmacists may work in the UK, or further afield, once registered with the relevant regulator.

Graduates from this degree at Queen's are well regarded by local, national and international employers and the prospects of employment for a graduate with an MPharm degree in the UK are high. Typically they pursue careers in three main employment sectors, (including starting salaries): community pharmacy (£21–35k), hospital pharmacy (£25k) and the pharmaceutical industry (£25k). Graduates can also develop careers in a range of other sectors, including academic pharmacy, scientific publishing and various graduate programmes.

We regularly consult with a large number of employers, from multinationals (eg Walgreens Boots Alliance) to independent pharmacies and Health and Social Care Trusts, who are members of the stakeholders' panel for the degree, provide placements for students and contribute to the undergraduate teaching on the MPharm.

Further study is also an option: graduates can choose from a wide range of Masters programmes as well as a comprehensive list of research topics; see the School website for further information.

We are the

No.1

School of Pharmacy
in the UK

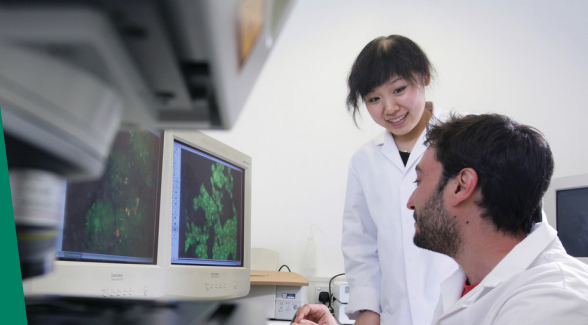
Pharmaceutical Sciences Pharmaceutical Biotechnology

BSc Honours (3 years)

Course code

University code: Q75 QBELF

Course code: B210



Entrance Requirements

A-level: BBB including Chemistry and one other from Biology, Mathematics, Physics + GCSE Mathematics

Irish Leaving Certificate: B2B2B2B2CC-B2B2B2B2B2B2 including Higher Level grade B2 in Biology and Chemistry + If not offered at Higher Level then Ordinary Level grade C in Mathematics

For students whose first language is not English: An IELTS score of 6.5 with a minimum of 6.0 in each test component or an equivalent acceptable qualification, details of which are available at: <http://go.qub.ac.uk/EnglishLanguageReqs>

The Subject

These new Pharmaceutical Sciences and Pharmaceutical Biotechnology degrees are concerned with the design, evaluation, production and testing of medicines. As such, they are based on the chemical, biological and medical sciences as the foundation for employment within the pharmaceutical and related (eg medical device) industries. All of these facets are addressed and integrated in these three-year undergraduate degrees.

Students will study on the same pathway for the first two years of the degree, before specialising in pharmaceutical sciences or pharmaceutical biotechnology in their final year, which leads to the award of a BSc Honours degree in the chosen subject.

Course Content

Level 1

All students take six modules:

The first provides an introduction to pharmaceutical microbiology, including aspects of disinfection and sterilisation, with a second module providing an introduction to the principles of physical and analytical chemistry of importance in pharmaceutical systems.

The third module addresses the mathematical and statistical skills that are needed by pharmaceutical scientists to work effectively in the industrial and related sectors. A chemistry module covers important aspects of organic and bio-organic chemistry, including structure determination, chemical reactivity and mechanistic aspects. Finally, two physiology modules cover the principles of general physiology and histology as well as an introduction to systemic pathophysiology.

Contact

Entrance requirements

E: admissions@qub.ac.uk

T: +44 (0)28 9097 3838

Course information

Dr Dan Corbett

School of Pharmacy

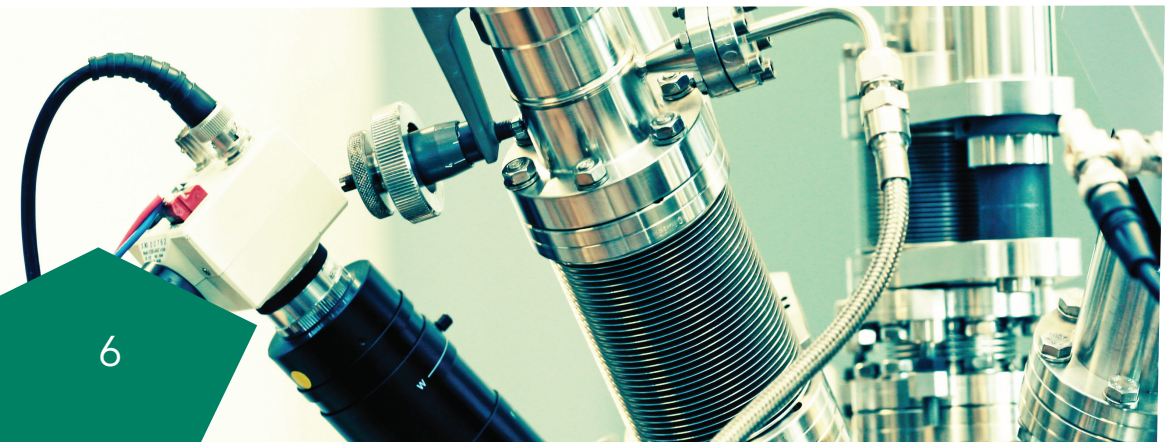
T: +44 (0)28 9097 5812

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Level 2

This year provides further development of understanding of basic sciences related to the pharmaceutical sciences.

The modules studied cover three key areas.

Firstly, the basic principles of drug action and pharmacology are studied.

Secondly, the structure, function and characterisation of medicinal substances is studied.

Thirdly, the formulation of drug products, drug stability and the industrial manufacturing of pharmaceutical dosage forms is covered.

Level 3

Core modules studied in the final year cover the following areas:

Applied pharmaceutical analysis and drug design, biological pharmaceuticals and drug delivery.

Quality assurance and regulatory aspects of pharmaceutical manufacturing are studied by Pharmaceutical Sciences students, while those specialising in Pharmaceutical Biotechnology study detailed aspects of biotherapeutics.

Students also carry out a research project in Pharmaceutical Sciences or Pharmaceutical Biotechnology.

Special features

Placement

A feature of this BSc degree programme is the opportunity for experience of the industrial environment through inclusion of placements within local industries between the second and third years.

Careers/Further Study

Studying for the BSc Pharmaceutical Sciences degree at Queen's will assist students in developing the core skills and employment-related experiences that are valued by employers, professional organisations and academic institutions.

The prospects of employment for a graduate with a BSc degree in the UK are high.

Examples of career sectors (and graduate starting salaries) are:

- Industrial pharmacy (£25k)
- Academic pharmacy (£31k with a PhD)
- Scientific publishing (£21k)
- Various graduate programmes (Times Top 100 Graduate Recruiters/AGR, Association of Graduate Recruiters UK)

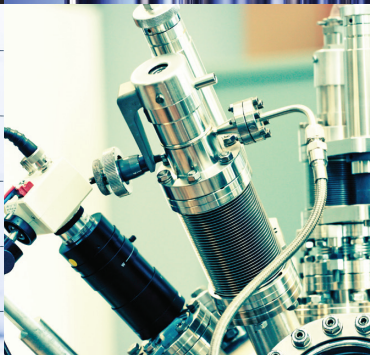
Additionally we consult and have developed links with a large number of employers including Actavis and Almac who are members of the stakeholders' panel for this degree.

Further study is also an option: graduates can choose from a wide range of Masters programmes as well as a comprehensive list of research topics; see the School website for further information.

Our new BSc degrees will let you develop the skills to **succeed** in the pharmaceutical industry



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