Pharmacy and Pharmaceutical Sciences

Discover it

Develop it

nottingham.ac.uk/pharmacy
Undergraduate guide 2019
I was quite apprehensive about the jump from A levels to a pharmacy degree. However, from the very first day I realised there was no need to be. The course is structured in such a way that the transition is incredibly smooth and the staff are very helpful and friendly. I have secured my pre-registration place at my first-choice hospital where I will start after graduation.

Aiysha Raoof, MPharm Pharmacy
Our courses

Degree title | UCAS code | Duration | A levels | IB
---|---|---|---|---
**Single honours**
MSci Pharmaceutical Sciences (with a Year in Industry) | B23B | 4 years | AAB | 34
MPharm Pharmacy | B230 | 4 years | AAB | 34
MPharm Pharmacy (with integrated pre-registration scheme) | B236 | 5 years | AAB | 34

**Foundation courses**
Applicants who are not eligible for direct entry to undergraduate study may be able to apply for a foundation course. Find out more at nottingham.ac.uk/foundationcourses

**English language requirements**
IELTS 7.0 (no less than 6.0 in any element) for the MPharm courses, 6.5 (no less than 6.0 in any element) for the MSci degree. For details of other English language tests and qualifications we accept, please see nottingham.ac.uk/go/alternativerequirements

**Academic English preparation**
If you require additional support to take your language skills to the required level, you may be able to attend a preessional course at the Centre for English Language Education, which is accredited by the British Council for the teaching of English in the UK.

Students who successfully complete the preessional course to the required level can progress onto their chosen degree course without retaking IELTS or equivalent. Find out more at nottingham.ac.uk/cele

**Entry requirements**
- Minimum of GCSE grade 7 in maths and grade 5 in English for the MPharm courses.
- Minimum of GCSE Grade 7 in maths and grade 4 in English for the MSci degree
- Minimum of AAB at A level including chemistry, another science A level (maths, biology or physics) and a third subject (excluding general studies and critical thinking)

**GCSE reform**
In keeping with the reform to GCSEs in England where subjects are to be graded from 9 to 1 instead of A* to G, and in accordance with Ofqual recommendations, we will treat GCSEs graded numerically as GCSE grade A*=9, A=7, B=5, C=4. GCSE qualifications taken outside of the UK will still be graded A* to G.

For a full list of entry requirements visit nottingham.ac.uk/pharmacy

nottingham.ac.uk/ugstudy/pharmacy

For Fitness to Practise requirements please see page 14
MSci Pharmaceutical Sciences (with a Year in Industry)

This course is designed to provide you with the knowledge and practical skills needed to become a leading expert in drug discovery and the design of medicines.

The course includes a year working in the pharmaceutical, biotech or healthcare industry to help you make a confident start in the global workplace from the day you graduate.

A distinguishing feature of our course is the use of real-life case studies throughout the first two years. These are designed to illustrate how science is used for the discovery of drugs and the design of medicines.

The case studies bring together the sub-disciplines of pharmaceutical science:
- Chemistry – organic chemistry for drug design and discovery; analytical techniques and physical chemistry to understand and determine the purity and properties of drugs and medicines
- Pharmaceutics – the science of designing and formulating medicines
- Bioscience – the biology and pharmacology to understand disease and drug action; the design of complex biological drugs

Years one and two
Years one and two of the course introduce the core science of drug discovery (both small organic and complex biological molecules) and the formulation of medicines. Laboratory-based classes and small group workshops are an important part of the modules.

You will also become familiar with many of the most commonly prescribed medicines in a variety of disease areas.

Year three
In year three, emphasis is placed on current and possible future advances in drug discovery and pharmaceutical developments. You will be able to tailor the course and focus on areas of pharmaceutical science that you find most interesting. A research project will be a significant part of year three and prepare you for your year in industry.

Year four
Following a successful application and selection process with industrial placement providers in year three, you will complete a year-long research project in the pharmaceutical, biotech or health and consumer industry.* During this year you will also complete a year-long distance-learning module to enhance your theoretical knowledge.

Companies that are keen to host projects include some of the largest global pharmaceutical companies as well as regional businesses, many of whom trace their origins to the school. Reduced tuition fees are payable during this year. Comprehensive academic and pastoral support will be provided in addition to supervision provided by the industry partner.

Modules may change, for example due to curriculum developments. The above list is a sample of typical modules that we offer, not a definitive list. The most up to date information can be found on our website at nottingham.ac.uk/pharmacy

* The school provides support to assist you in the application and selection process for your industrial placement. Students who do not complete the industrial placement but successfully complete year three may be eligible for the BSc (Hons) in Pharmaceutical Sciences.

nottingham.ac.uk/ugstudy/pharmacy
MPharm Pharmacy

This course is designed to equip you with the detailed scientific and clinical knowledge, technical ability, and personal and professional skills needed to become an excellent pharmacist.

Much of your learning will be case-based to ensure that the scientific and professional elements are integrated from day one. You will study in lectures, practical classes, small workshop and tutorial groups, e-learning packages and on placement.

There will also be opportunities to study alongside students in other healthcare disciplines; for example with trainee doctors and nurses.

Year one
Your initial introduction to the MPharm will focus on providing a strong foundation for the rest of your degree. You will develop an understanding of the role that pharmacists play in the healthcare system and will explore the patient experience. Teaching will focus on the essential skills you will need to succeed as a pharmacist, including effective communication, checking skills, pharmacology and therapeutics. You will also begin your first Drug, Medicine and Patient (DMP) modules, focusing on a specific disease.

Year two
You will consolidate the main areas of pharmacy and start to explore some of the wider professional and sociological issues. You will have the opportunity to apply to spend either a semester or the whole year at our Malaysia Campus.

Year three
You will complete three more DMP modules before undertaking a research project aimed at solving a specific pharmacy-related problem. Projects are available on a wide range of topics and you will have the support of a supervisor as you collect, analyse and interpret data and present this in the form of a poster presentation and research report. You may apply to complete your project with one of our overseas providers, including at our Malaysia campus.

Year four
In year four we will prepare you for going on to work as a pharmacist with a variety of modules in advanced clinical pharmacy, healthcare policy and practice and future medicines.

Placements
Placements are undertaken throughout the course to give you an insight into life as a pharmacist and help put your learning into context. For more information see page 12.

Accreditation
This four-year programme has full accreditation by the General Pharmaceutical Council (GPhC). For more information on the accreditation of UK pharmacy programmes, see pharmacyregulation.org

nottingham.ac.uk/ugstudy/pharmacy

Typical modules

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<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
<th>Year four</th>
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<tr>
<td>Semester one (September to January)</td>
<td>Transition to Higher Education and the Pharmacy Profession</td>
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<tr>
<td>■ Being a Pharmacist</td>
<td>Drug, Medicine and Patient</td>
<td>■ Gastrointestinal and Liver Disorders</td>
<td>Advanced Studies in Clinical Pharmacy, Pharmacy Practice and Science</td>
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<tr>
<td>■ Essential Skills for Pharmacists</td>
<td>Asthma, Allergies and Immune Diseases</td>
<td>■ Central Nervous System Disorders</td>
<td>■ Integrated Pharmaceutical and Patient Care One</td>
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<tr>
<td>Semester two (January to June)</td>
<td>Drug, Medicine and Patient</td>
<td>■ Cardiovascular</td>
<td>■ Advanced Drug Discovery</td>
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<td>■ Dyspepsia</td>
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<td>■ Pharmacy</td>
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<tr>
<td>■ Bacterial and Fungal Infections</td>
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<td>■ Leadership and Management</td>
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<tr>
<td>Semester two (January to June)</td>
<td>Drug, Medicine and Patient</td>
<td>■ Renal and Endocrine Diseases</td>
<td>(full-year module)</td>
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<td>■ Pain</td>
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<td>■ Sexual Health and Pregnancy</td>
<td>Semester two (January to June)</td>
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<td>■ Pain</td>
<td>Research and Broadening Horizons</td>
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<td>Research Project</td>
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<td>Optional module</td>
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MPharm Pharmacy (with integrated pre-registration scheme)

Our innovative five-year MPharm course includes the pre-registration element of pharmacy training, enabling you to graduate ready to apply for registration as a UK pharmacist.*

This ground-breaking programme fully integrates scientific and clinical training, allowing you to stay at the cutting-edge of the profession. You will also be ensured** a UK pre-registration placement as part of your degree.

This course is of particular appeal to international students who wish to undertake their pre-registration training in the UK while retaining their student status.

Please note that the pre-registration element of the five-year programme is unsalaried and tuition fees will be payable to the University for each year of the course.

Years one to three
Years one to three follow the same structure as the Master of Pharmacy course.

Year four
The first semester will be spent on a six-month pre-registration training placement, after which you’ll return to the University to undertake semester two.

Year five
In the first semester you will continue with modules in advanced clinical pharmacy, leadership and management, and advanced drug discovery before completing the course with a final six-month pre-registration placement.

Placements
Additional placements are undertaken throughout the course to give you an insight into life as a pharmacist and help put your learning into context. For more information see page 12.

Accreditation
This five-year programme has full accreditation by the General Pharmaceutical Council (GPhC). For more information on the accreditation of UK pharmacy programmes, see pharmacyregulation.org

nottingham.ac.uk/ugstudy/pharmacy

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<td>Semester one (July to January)</td>
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<tr>
<td>Being a Pharmacist</td>
<td>Gastrointestinal and Liver Disorders</td>
<td>Viral and Parasitic Infections</td>
<td>26-week Pre-Registration Placement</td>
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<tr>
<td>Essential Skills for Pharmacists</td>
<td>Asthma, Allergies and Immune Diseases</td>
<td>Central Nervous System Disorders</td>
<td>Semester two (January to June)</td>
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<td>Semester two (January to June)</td>
<td>Cardiovascular</td>
<td>Cancers</td>
<td>Advanced Studies in Clinical Pharmacy, Pharmacy Practice and Science</td>
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<tr>
<td>Drug, Medicine and Patient</td>
<td>Semester two (January to June)</td>
<td>Semester two (January to June)</td>
<td>Future Medicines</td>
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<tr>
<td>Dyspepsia</td>
<td>Drug, Medicine and Patient</td>
<td>Research and Broadening Horizons</td>
<td>Integrated Pharmaceutical and Patient Care (spring)</td>
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<tr>
<td>Bacterial and Fungal Infections</td>
<td>Renal and Endocrine Diseases</td>
<td>Research Project</td>
<td>Pharmacy Leadership and Management (spring)</td>
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<td></td>
<td>Sexual Health and Pregnancy</td>
<td>Optional module</td>
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Professional competencies modules run throughout each year of the course.

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The MPharm: Learning in a professional environment

Throughout the MPharm courses you will undertake placements in a range of healthcare settings. These placements will give you first-hand exposure to the practical, ethical, managerial and interpersonal aspects of professional practice in both community and hospital pharmacy settings.

Placements range in length from half a day to two-and-a-half days. As we constantly review our course provision in conjunction with providers, placements are subject to change each year.

You will be issued with a placement handbook for each year of the course, which includes learning activities linked to topics being studied. The placements indicated on the following page are a compulsory component of the course and you will also be encouraged to source additional placements/voluntary work during vacation periods.

“\nI really enjoyed chemistry, biology and all those sorts of subjects at school. I think pharmacy brings it all together in a clinical environment. It’s very hands-on from the first day – you have placements, lots of dispensing classes, and lab classes. There’s a lot of varied work throughout the degree.

Vanessa Eustace, MPharm Pharmacy

nottingham.ac.uk/pharmacy
Fitness to practise

Pharmacy is one of the registered healthcare professions, and training to be a qualified pharmacist on our MPharm courses carries both privileges and responsibilities. We select students who we believe will demonstrate appropriate behaviours and attitudes from the start, and these skills are further developed through the curriculum.

Standards for Pharmacy Professionals
All students are required to abide by the Standards for Pharmacy Professionals of our accrediting body, the General Pharmaceutical Society (GPhC) from the first day of the course and throughout their working life as a Pharmacist. For more information please see pharmacyregulation.org/spp

Disclosure Barring Service
It is a requirement of our accrediting body, the GPhC, that all students entering the MPharm courses must undergo a Disclosure Barring Service (DBS) check (UK based students) or equivalent Police Check from their home country (students based overseas) due to the nature of the course and profession. You must advise us if you have received any convictions, warnings or reprimands.

The University undertakes not to discriminate unfairly against any applicant on the basis of a criminal conviction or other information received through this process.

The DBS check or equivalent will be required once your results have been received and you have been confirmed as a student on an MPharm course. The cost of the DBS check will be charged to your University account.

Health screening
All applicants offered a place on the course are required to complete a Health Declaration Form; this information will be subject to an occupational health screening confirming you are fit to train and meet the GPhC requirements.

In most cases, health conditions and/or disabilities will not raise fitness to practise concerns. The school and University are able to put a number of reasonable adjustments in place to ensure that students with a disability or health condition are supported appropriately on the course. There are also effective mechanisms in place for students to access additional support.

If you have a condition which would make it impossible for you to work safely with patients and clients or to acquire the skills necessary to complete training, even with adjustments and support, then it may not be possible to admit you onto an MPharm course.

All students will need to have been immunised against measles, rubella and tuberculosis, and to demonstrate immunity to chicken pox. Further information about this requirement will be sent to any applicant who is successful in being made an offer on an MPharm course.

Please contact the school for further advice and support about disability, health, fitness to practise and confidentiality issues. Contact us: pharmacy-enquiries@nottingham.ac.uk

nottingham.ac.uk/pharmacy/fitness-to-practise
Learning in a new culture

You will have the exciting opportunity to apply to spend part of your studies at our Malaysia Campus or at one of our partner institutions overseas.

MPPharm students can apply to spend all or part of their second year studying in Malaysia, whilst students on both the MPPharm and MSci have the option to apply to undertake the year three research project either at the Malaysia Campus or with an external provider overseas. Recent destinations for research projects have included Australia, Canada, Hong Kong and New Zealand.

The University’s self-contained Malaysia Campus is on a beautiful 125-acre site in Semenyih, about 30km south of Kuala Lumpur.

At the Malaysia campus, you will study modules identical to those in Nottingham, and all teaching is carried out in English.

You will have the chance to immerse yourself in the Malaysian cuisine and culture, not to mention the warm climate. The campus provides accommodation, sports facilities (including an outdoor swimming pool) and a multi-level library, as well as fantastic teaching and learning facilities.

Many students also take the opportunity to travel around the region at weekends, to various islands, beaches and rainforest, as well as travelling to neighbouring countries in the holidays. Studying in Malaysia makes for an amazing experience that will prepare you for living and working globally after graduation.

For further information on the University of Nottingham Malaysia Campus, please visit nottingham.edu.my

nottingham.ac.uk/pharmacy/study/abroad
How to apply

All applications for an undergraduate place to study at the University of Nottingham, including applications by international students, must be made through UCAS.

Applications should be made online at ucas.com and candidates will be notified of decisions through UCAS Track.

Selection procedure

Applicants must meet minimum academic requirements and be able to demonstrate the required skills, knowledge and appropriate attitude to succeed on our courses.

Your personal statement

The information given in your UCAS form – both your academic achievements and your personal statement – are assessed to determine academic ability and also personal qualities, skills and experience appropriate to a career in pharmacy.

Within your personal statement, we are looking to see that you are a student who can work hard, be self-motivated and make the most of the opportunities offered by the course. In particular, we will give careful consideration to the extent of your extra curricular activities and responsibilities, and the skills and qualities they demonstrate.

For MPharm applications, we expect you to demonstrate a knowledge and awareness of the nature of a pharmacist’s role in patient care. Work experience within a pharmacy or healthcare setting is not essential but is strongly recommended as it will provide you with a more in-depth understanding and insight into the profession. This will be explored further at interview.

The interview

(MPharm applicants only)

Applicants are selected for interview on the basis of their UCAS form. The interview process is designed to assess the core competencies and behaviours that we consider vital to success both on the course, and for the profession.

It will give you the chance to put across your knowledge and skills in a range of areas, including a group assessment to see how individuals work in a team situation.

Overseas applicants will be asked to undertake an interview by Skype.

Further details about interviews will be provided to selected candidates. Offers of places on the MPharm will only be made after interview.

We do not currently interview applicants to the MSci course; decisions will be made on the basis of your UCAS application.

Alternative qualifications

In this brochure you will find our A level and International Baccalaureate entry requirements but we accept a much broader range of qualifications. For more details, visit nottingham.ac.uk/ugstudy/applying

Flexible admissions policy

In recognition of our applicants’ varied experience and educational pathways, we employ a flexible admissions policy. If we judge that your situation has adversely affected your achievement, then we will consider this when assessing your academic potential. Some courses may make a slightly lower offer. For more information about this policy, see nottingham.ac.uk/ugstudy/applying

Mature applicants

We encourage applications from mature applicants who have a significant gap in education. You should apply through UCAS. Find out more at nottingham.ac.uk/mature

International applicants

The University provides a range of information and advice for international applicants. If you are unable to attend an open day, we can meet you in your country at one of our overseas events or arrange an individual visit to the University. For further information please visit nottingham.ac.uk/go/international-applicants

Deferred entry

Applicants who wish to defer their entry by a year will not be at a disadvantage. Please tell us something about your plans for your gap year in your UCAS personal statement.

Equal opportunities policy

The University aims to create the conditions whereby students and staff are treated solely on the basis of their merits, abilities and potential, regardless of gender, race, colour, nationality, ethnic or national origin, age, socio-economic background, disability, religious or political beliefs, trade union membership, family circumstances, sexual orientation or other irrelevant distinction.

Excluded Students Database

As a member of the Pharmacy Schools Council the school makes use of the Excluded Students Database to identify applicants who have been excluded from a professional degree programme on grounds of fitness to practise. Applications from applicants who appear on the Database will be considered on an individual basis.
As a qualified pharmacist you will be an expert in medicines and how they work. As a pharmaceutical scientist you will be at the forefront of future medicines development.

You have the opportunity to make a real contribution to the nation’s health through many different career paths. Pharmacists can be found in various settings including high-street pharmacies, hospital wards, GPs’ surgeries, walk-in centres, industry and universities. A range of careers are possible with a MSci Pharmaceutical Sciences degree. You will be well prepared for roles in pharmaceutical research and development either in big pharma or small and medium-sized companies providing pharmaceutical services. Similar opportunities are available in related sectors, such as the consumer healthcare products or cosmetics industries.

MPharm careers

Pre-registration
To become a UK-registered pharmacist after the four-year MPharm, you must successfully complete a pre-registration training period after graduation. This is a year of salaried training, at the end of which you will sit the General Pharmaceutical Council’s exam to become a qualified pharmacist. More information can be found at pharmacyregulation.org
The school hosts a pre-registration roadshow each year which is attended by potential employers from all sectors, so there’s lots of support available to help you find your pre-registration place. The vast majority of our students have places arranged well before graduation.

Community pharmacy
The traditional dispensing and advisory role associated with community pharmacy is evolving and pharmacists are playing a greater role in patient care. Some pharmacists now have prescribing roles and are involved in services such as weight-management counselling. A career in community pharmacy also offers the opportunity to develop financial and managerial skills for business, whether self-employed or working within a larger company.

Hospital pharmacy
Hospital pharmacists work as part of a wider interprofessional healthcare team including doctors, nurses and physios, offering their expertise in selecting treatments for managing patient care.
The role of hospital pharmacists is also developing, as technological advancements enable more time to work with patients on the wards. Opportunities for career development are provided both through management and clinical specialism.

Industrial pharmacy
If research and development of new drugs interests you, industrial pharmacy may provide you with the ideal career. Industrial pharmacists work alongside scientists specialising in other areas to discover safe and effective drugs.

Other opportunities
There are a number of other opportunities available to pharmacists, including academia, veterinary pharmacy, the Royal Army Medical Corps, the prison service and regulatory pharmacy.

Outstanding careers support

Careers and employability

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Outstanding careers support

Amplify your potential

Whether you already have a plan or need some inspiration, your Careers and Employability Service is here to help.

Academic excellence and employability go hand in hand at Nottingham. Your course, and the diverse student experiences we offer, will enable you to develop the skills and professional competencies required to thrive in the job market of the future.

We will help you explore your options, so you feel confident making choices about what you want to achieve. Our team will support you as you build your CV, search for jobs, prepare applications, practise your interview technique, and much more.

Postgraduate study
The School of Pharmacy offers suitably qualified graduates excellent opportunities to study for MSc, MRes or PhD degrees in a wide range of research areas. Becoming a postgraduate student within our school means joining a thriving research community exploring world-changing issues at the forefront of science and healthcare. It also means developing skills that are highly valued in academia and the biotechnology, healthcare and pharmaceutical industries.

Get the Advantage
The career-enhancing Nottingham Advantage Award recognises and rewards your extracurricular activities. With a choice of over 200 modules, you can hone the key skills employers are looking for. From developing your leadership skills and learning a language to public speaking and volunteering, you will leave university with demonstrable experience that sets you apart from other graduates. For further information, visit nottingham.ac.uk/careers/advantage

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nottingham.ac.uk/careers
Engaging study, incredible results

Our innovative curricula are designed to enthuse and inspire you, while offering an unparalleled opportunity to develop your skills as a future leader in the pharmaceutical industry or as a healthcare professional.

Case study workshops
You will research a particular problem and work together in groups to find the best solution. This will allow you to think independently as well as experience team working where cultural backgrounds and opinions can differ, all of which will help prepare you effectively for being a global professional.

Other teaching and learning methods used in the School of Pharmacy embrace both traditional and cutting-edge developments in innovation and technology. These include:

Placements
MPPharm students undertake placements in local community and hospital pharmacies, as well as visits to industry and other areas of pharmacy practice. These are crucial in providing you with an insight into life as a pharmacist.

Virtual learning environment
We provide a number of e-resources, including presentations and podcasts of lectures, online assessments and feedback, to support your learning.

Pastoral and academic support
We believe that a supportive environment is essential to student achievement, and both the school and University provide a wide range of academic and welfare services to enable you to perform at your very best.

Buddy Scheme
Students are able to join the Buddy Scheme which brings together new and existing students for peer mentoring and support.

How will I study?

23

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How will I be assessed?
A variety of assessment methods are used on our courses to ensure that the learning outcomes for each module are met.

Assessments include:
- examinations – both paper-based and online
- coursework – including essays, care plans and a research project
- assessed practicals
- lab reports
- poster presentations

In addition, MPPharm students will undertake OSCEs (Objective Structured Clinical Examinations) to test their skills in a variety of clinical scenarios.

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We provide a number of e-resources, including presentations and podcasts of lectures, online assessments and feedback, to support your learning.

Pastoral and academic support
We believe that a supportive environment is essential to student achievement, and both the school and University provide a wide range of academic and welfare services to enable you to perform at your very best.

Buddy Scheme
Students are able to join the Buddy Scheme which brings together new and existing students for peer mentoring and support.

How will I be assessed?
A variety of assessment methods are used on our courses to ensure that the learning outcomes for each module are met.

Assessments include:
- examinations – both paper-based and online
- coursework – including essays, care plans and a research project
- assessed practicals
- lab reports
- poster presentations

In addition, MPPharm students will undertake OSCEs (Objective Structured Clinical Examinations) to test their skills in a variety of clinical scenarios.
For undergraduate enquiries contact:
Student Recruitment Enquiries Centre
nottingham.ac.uk/pharmacy
@UoN_Pharmacy
nottingham.ac.uk/contact

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This brochure has been drafted in advance of the academic year to which it applies. Every effort has been made to ensure that the information contained in this brochure is accurate at the time of publishing, but changes (for example to course content) are likely to occur given the interval between publication and commencement of the course. It is therefore very important to check our website for any updates before you apply for the course by following nottingham.ac.uk/ugstudy. Where there is a difference between the contents of this brochure and our website, the contents of the website take precedence.