# Programme Specification MPharm Pharmacy with Preparatory Year For students entering Foundation year in September 2021

# This document sets out key information about your Programme and forms part of your Terms and Conditions with the University of Reading.

Awarding Institution	University of Reading
Teaching Institution	University of Reading
Length of Programme	5 years
Accreditation	General Pharmaceutical Council (GPhC)

#### Programme information and content

The programme aims to provide you with a modern, innovative and integrated education in Pharmacy that meets the standards of the University and the MPharm requirements of the General Pharmaceutical Council. The Preparatory Year forms Part 0 of this course and will provide you with the fundamental knowledge and essential study skills to prepare you to succeed on our Masters-level Pharmacy programme. Following completion of Part 0, year 1 of the MPharm (Part 1) through to your final year (Part 4) will teach you to be responsible for the safe manufacture, distribution and use of medicinal products, and will encompass detailed studies of all aspects of drug action, design, formulation and use. You will be trained in aspects of chemistry, biology, therapeutics, statistics, social and clinical pharmacy, and law, that impact on pharmacy. You'll learn about the underlying pathophysiology of many human diseases, and how the use of medicines can halt, slow the progression of, or reverse disease processes. The programme is focussed on the patient and provides you with professional experiences in terms of placement opportunities, interprofessional learning and patient interaction. Some of your learning will take place alongside students from other health care disciplines as part of our interprofessional education and you'll also be given the opportunity to carry out a range of placements in both traditional and role-emerging settings including community and hospital pharmacies, and GP practices and, where capacity allows, specialist health and social care settings. This will provide you with invaluable experience on the front line of health care provision. The programme forms the first stage of professional training towards becoming a pharmacist. It will support you in your development as an independent learner with strong therapeutic and clinical skills and knowledge. Reading MPharm graduates will be well placed to complete a further 12 months Foundation training and will be supported in their preparation for the General Pharmaceutical Council (GPhC) Registration Assessment.

Foundation year: The Preparatory Year provides you with the scientific background required to succeed on the subsequent years of the course. You will acquire a broad foundation in chemistry, biology and scientific calculations. Additionally, our Academic Skills module gives you the skills necessary to excel at University level study. The goal of Part 0 is to provide you with basic core knowledge suitable for your chosen pathway and the confidence to transition to Higher Education.

Part 1:	Introduces you to key concepts and is taught in broad discipline themes, where concepts are described, developed and explicitly linked and integrated to the pharmacy profession. During Part 1, we focus on developing your learning skills; our assessment is largely diagnostic and formative as we encourage you to reflect and take responsibility for your own learning. The year is made up of interlinked modules that will provide you with the core biological, chemical and professional knowledge and skills that form the foundation of the degree programme. The year includes a number of laboratory, workshop and tutorial classes that allow you to develop your pharmaceutical science and practice skills, each providing you with appropriate feedback and opportunities for reflection. You will also show competence in pharmaceutical calculation, which will continue throughout the next four years. During Part 1 you will also be required to undertake placements in a community pharmacy setting, and interprofessional learning activities, through which you will start to learn about how pharmacists work as part of a multidisciplinary team. You will put together and submit a Portfolio, which you will continue to work on throughout the four years of study to demonstrate your engagement with the placements and your growth as a reflective practitioner.
Part 2:	Provides you with an integrated approach to teaching and assessment, whilst also developing core scientific skills needed to be able to understand how science impacts on professional practice and prescribing behaviours. You will gain a full understanding of how to use your science and practice knowledge to support patients and the public, within an industrial and professional practice context. In Part 2, there is a focus on the therapeutic areas of renal, gastrointestinal, cardiovascular and respiratory disease; the normal structure of these systems, pathology of diseases affecting them and how they are managed therapeutically, including clinical decision making and clinical reasoning. You will learn about drug discovery, and how the chemical structure of a drug affects its stability and activity. You will be taught about the safe handling of materials, manufacturing methods (including aseptic preparations) and quality assurance. You will further your knowledge of drug delivery and formulation, with a focus on how drugs are formulated for delivery through the gastrointestinal tract, and the core concepts of pharmacology, toxicology and health-related statistics. You will build upon your knowledge and skills relating to pharmacy practice concepts, for example, interpreting and assessing prescriptions for safety, medicines related legislation and communication and consultation skills. During Part 2, you will be required to undertake placement learning in a community, general practice and/or hospital pharmacy setting, in addition to engaging with interprofessional and patient-focussed learning activities.
Part 3:	Gives you the opportunity to further develop your knowledge and skills relating to scientific and practice aspects of therapeutics and clinical pharmacy. Assessments within this year address topics from across modules and include key professional skills including communication and consultation skills. Therapeutic areas covered in this year include: dermatology, men's & women's health, endocrinology, musculoskeletal disorders, the central and peripheral nervous systems. Each topic includes aspects of physiology, pathology, disease

	management and prevention, patient management, prescribing and promoting public health. You will build upon your knowledge of medicines design and delivery, considering a range of different options for the management and treatment of the therapeutic conditions. During Part 3, you will be required to attend and undertake placement learning in a community, general practice and/or hospital pharmacy setting, in addition to engaging with interprofessional and patient- focussed learning activities.
Part 4:	Within Part 4 you will develop your knowledge of generic and discipline- specific research methods, clinical therapeutics (in which you will apply your learning to more complex therapeutic and practice-based topics), and professional skills that will help you complete your preparation to become prescriber ready. The topics covered in the therapeutics module include prescribing and medicines use in pregnancy and breastfeeding, paediatrics, emergency and critical care, caring for the older person, and palliative care. Within Part 4, you will engage in our interprofessional education symposium, in which you will learn alongside a range of other healthcare trainees and work as part of a multidisciplinary team. Part 4 also provides the opportunity to choose an optional module where you will be able choose an aspect of pharmacy to study in greater depth. Optional modules offered will vary but may include advanced clinical topics in specialist areas of pharmacy practice, a pharmaceutical and clinical research project, key skills for the pharmaceutical industry or pharmaceutical innovation and product development. In order to successfully complete Part 4, you will be required to demonstrate satisfactory knowledge and understanding of legal and ethical issues relating to pharmacy, and clinical and communication skills, ensuring patient safety and safe, sustainable and ethical clinical reasoning, decision making and prescribing practice. As you come to the end of your undergraduate studies, you will have developed the knowledge and skills required in order to become 'prescriber ready' and work as an effective and patient focussed member of the healthcare team, as you prepare to move into your Foundation training year to complete the rest of your pharmacy and prescribing training.

# Module information

Each part comprises 120 credits, allocated across a range of compulsory and optional modules as shown below. Compulsory modules are listed.

Foundation modules:			
Module	Name	Credits	Level
BI0BF1	Foundation Programme: Biology	40	0
CH0CHE	Chemistry	40	0
IFORAS	Foundation in Academic Skills	20	0
PM0PHS	Foundation in Pharmaceutical and Health Sciences	20	0
All module	s at Part 0 of the programme are compulsory Students wi	th adequat	e prior

All modules at Part 0 of the programme are compulsory. Students with adequate prior learning in subject areas which are compulsory in Part 0 may be eligible to apply for a

Recognition of Prior Learning (RPL) exemption from a limited number of modules. Students with an approved RPL exemption will be permitted to take alternative optional modules to the same number of credits overall. Students will need to consult the Programme Director with regards to optional modules available and choice may be restricted by timetable constraints.

International Students take IF0ACA (Academic Skills), in place of IF0RAS (Foundation in Academic Skills), as IF0ACA is specifically targeted to the needs of international students.

## Part 1 Modules:

Module	Name	Credits	Level
PM1A	Fundamentals of Physiology	50	4
PM1B	Medicines Discovery, Design, Development and Delivery	50	4
PM1C	Introduction to Professionalism and Practice	20	4

All modules at Part 1 of the programme are compulsory.

# Part 2 Modules:

Module	Name	Credits	Level
PM2PY1	Professional Practice 2	40	5
PM2PY2	Clinical Therapeutics 1	40	5
PM2PY3	Clinical Therapeutics 2	40	5

All modules at Part 2 of the programme are compulsory.

If you take a year-long placement or study abroad, Part 3 as described below may be subject to variation.

# Part 3 Modules:

Module	Name	Credits	Level
PM3PY1	Professional Practice 3	40	6
PM3PY2	Clinical Therapeutics 3	40	6
PM3PY3	Clinical Therapeutics 4	40	6

All modules at Part 3 of the programme are compulsory.

# Part 4 modules:

Module	Name	Credits	Level
PM4PY1	Professional Practice 4	60	7
PM4PY2	Research Skills	20	7
PM4PY3	Clinical Therapeutics 5	20	7

The remaining 20 credits will be made up of an optional module, chosen from a list of approved modules that will be provided by the School.

## **Optional modules:**

The optional modules available can vary from year to year. An indicative list of the range of optional modules for your programme can be found online in the Course Catalogue. Details of optional modules for each part, including any additional costs associated with the optional modules, will be made available to you prior to the beginning of the Part in which they are to be taken and you will be given an opportunity to express interest in the optional modules that you would like to take. Entry to optional modules will be at the discretion of the University and subject to availability and may be subject to pre-requisites, such as completion of another module. Although the University tries to ensure you are able to take the optional modules in which you have expressed interest this cannot be guaranteed.

#### Additional costs of the programme

During your programme of study, you will incur some additional costs.

A range of resources to support your curriculum, including textbooks and electronic resources, are available through the University library. Reading lists and module specific costs are listed on the individual module descriptions. There should not be a need to purchase additional textbooks, but students may want their own copies of some textbooks.

Printing and photocopying facilities are available on campus at a cost of  $\pm 0.05$  per A4 page. Costs may be, on average,  $\pm 150$  per year.

You will also be required to have a lab coat for certain practical classes. These can be purchased for a cost of approximately  $\pounds 10$ .

As part of ensuring the safety of students, patients and the public, you will be required to undergo police (Disclosure & Barring Service) and health checks are part of your enrolment. The initial DBS check costs approximately £38. You will be required to sign up for the DBS Update service at a cost of £13 per year to ensure that your DBS status is updated throughout your time as a student. The occupational health check will require a screening fee of £38 with further costs incurred depending on whether occupational health referral and vaccinations are required. These costs may range between £280 and £600.

You will be required to complete a series of placements during your programme, for which you might incur travel, and in some cases, accommodation costs.

These costs are indicative and may vary according to inflation and other price fluctuations. The estimates were calculated in 2022.

#### Placement opportunities

#### Placements:

You will be required to complete placements in a range of settings, which may include community and hospital pharmacies, and GP practices and, where capacity allows, specialist health and social care settings. This will provide you with invaluable experience on the front line of health care provision. The time spent on placement will form an important part of meeting the MPharm programme and module learning outcomes. The MPharm will provide a set number of placement weeks that you must complete, as specified in the relevant module descriptions. Arrangements of placements will conform to the guidelines set by the General Pharmaceutical Council (GPhC), Health Education England (HEE) and the 'University Code of Practice on Placement Learning'.

## **Study Abroad:**

Study Abroad is not allowed for this programme.

## **Teaching and learning delivery:**

You will be taught through lectures, seminars, tutorials, workshops and practical classes. You will also undertake directed and self-directed study, and digitally-enabled learning activities to supplement and enhance your learning from the taught sessions. There will be an expectation that you will attend all taught sessions and attendance will be monitored. You will be required to complete a series of placements and visits to community, hospital and general practice healthcare organisations and will also take part in interprofessional learning activities, which will develop your understanding of the workplace, and the role of the pharmacist as part of the multidisciplinary team.

Elements of your programme will be delivered via digital technology.

The scheduled teaching and learning activity hours and amount of technology enhanced learning activity for your programme will depend upon your module combination.

Total study hours for each Part of your programme will be 1200 hours. The contact hours for your programme will depend upon your module combination; an average for a typical set of modules on this programme is Part 1 - 600 hours, Part 2 - 621 hours, Part 3 - 621 hours and Part 4 - 620 hours. In addition to your scheduled contact hours, you will undertake some self-scheduled teaching and learning activities, designed by and/or involving staff, which give some flexibility for you to choose when to complete them. You will also be expected to undertake guided independent study. Information about module study hours including contact hours and the amount of independent study which a student is normally expected to undertake for a module is indicated in the relevant module.

#### Accreditation details

To ensure the safety of students, patients and the public, students undertaking the MPharm programme will be required to have satisfactory police (Disclosure and Barring Service - DBS) and occupational health clearance. As part of this health check, you will be required to show that you have the relevant immunisations/immunity checks as stated in the Declaration of Health guidance document found in the MPharm admissions requirements page.

Both DBS and occupational health checks must be completed as part of the enrolment process and be maintained throughout the programme as an annual update and declaration. The DBS check may require renewal during the programme. You will be unable to attend experiential learning visits without satisfactory completion of DBS and health checks.

Students are required to inform the School of Pharmacy of any change in circumstances that may affect their ability, or suitability, to continue their studies; this includes circumstances relating to health and conduct. Students are also expected to maintain behaviours associated with a healthcare professional and must abide by University regulations, the School of Pharmacy Fitness to Practise policy and the General Pharmaceutical Council's Standards for Pharmacy Professionals. Deviation from these standards may lead to the instigation of University Academic Misconduct and/or Fitness to Practise processes.

## **University Threshold Performance Requirements**

The programme will be assessed through a combination of written examinations, coursework (including class tests), workplace-based assessments, and oral examinations. Further information is contained in the individual module descriptions.

#### Progression

The University-wide rules relating to 'threshold performance' are as follows:

Part 0 Preparatory Year

To gain a threshold performance at Part 0, a student will normally be required to:

(i) obtain an overall average of 40% over all modules taken in Part 0;

(ii) have no more than 40 credits of modules at Part 0 with marks below 35%; and

(iii) achieve a mark of at least 40% in the Academic Skills module (IF0RAS or IF0ACA)

In order to progress from Part 0 to Part 1 of the MPharm with Preparatory Year, a student must achieve a threshold performance; and

(iv) an average of at least 60% over all modules taken in Part 0;

(v) a mark of at least 60% in both CH0CHE Chemistry and BI0BF1 Foundation Programme: Biology

(vi) successful completion of specified coursework and/or examination components of relevant modules, as described in the module descriptions; and

(vii) no module mark below 40% in the remaining two modules.

The achievement of a threshold performance at Part 0 qualifies a student for a Certificate of Completion if they leave the University before completing the subsequent Parts.

Part 1

To gain a threshold performance at Part 1, a student shall normally be required to:

(i) obtain an overall average of 40% over 120 credits taken in Part 1; and

(ii) obtain a mark of at least 30% in individual modules amounting to at least 100 credits taken in Part 1.

In order to progress from Part 1 to Part 2, a student must achieve a threshold performance; and

(iii) an overall weighted average of 40% over 120 credits; and

(iv) a mark of at least 40% in individual modules and at least 40% in each individual module written examination; and

(v) successful completion of specified coursework and /or examination components of relevant modules, as described in the module descriptions.

Students who have failed or are not qualified to progress to Part 2 are permitted one re-sit examination in each module (or failed required coursework element of a module) in which they fail to meet the progression requirements. The mark used for the purposes of progression will be the higher of the mark obtained in the original examination and the mark obtained in the re-examination.

For the compulsory coursework element of Part 1 (the pharmaceutical calculations assessment), students will be permitted 3 attempts (named attempt 1A, 1B and 2) to demonstrate competence, as described in the module description.

Students who do not meet the above requirement but gain a University threshold performance at Part 1 may be eligible to transfer to another programme or to leave with a CertHE.

Part 2

To gain a threshold performance at Part 2, a student shall normally be required to:

(i) obtain a average of 40% over 120 credits taken at Part 2;

(ii) obtain mark of at least 40% in individual modules amounting to not less than 80 credits taken in Part 2;

(iii) obtain marks of at least 30% in modules amounting to 120 credits, except that a mark below 30% may be condoned in no more than 20 credits of modules owned by the Department of Mathematics and Statistics.

In order to progress from Part 2 to Part 3, a student must achieve a threshold performance; and

(iv) a mark of at least 40% (or a pass for 'pass/fail' assessments) in all assessments at Part 2

The achievement of a threshold performance at Part 2 qualifies a student for a Diploma of Higher Education if they leave the University before completing the subsequent Part.

Part 3

To gain a threshold performance at Part 3 a student shall normally be required to:

(i) obtain an overall average of 40% over 120 credits taken in Part 3.

In order to progress from Part 3 to Part 4, a student must achieve a threshold performance; and

(ii) a mark of at least 40% (or a pass for 'pass/fail' assessments) in all assessments in Part 3.

Students who do not meet the above requirements for progression to Part 4 but meet the requirements for the award of a Bachelor degree (as described in the Assessment Handbook: Section 17), will be eligible for the award of BSc Pharmaceutical Science. The weighting of the Parts/Years in the calculation of the degree classification for the BSc Pharmaceutical Science is:

Part 2: one-third

Part 3: two-thirds.

Please note that the exit award of BSc Pharmaceutical Science does not confer eligibility for Foundation training or registration with the GPhC as a pharmacist.

Part 4

To obtain the MPharm Degree, a student shall normally be required to have satisfied all of the above progression requirements and to achieve the following in Part 4:

(i) a module mark of at least 50% in individual modules amounting to not less than 120 credits taken in Part 4: and

(ii) a mark of at least 50% (or a pass for 'pass/fail' assessments) in all assessments in Part 4.

Students who do not meet the requirements for the award of MPharm described above, but who meet the requirements for the award of an Integrated Masters degree (as described in the Assessment Handbook: Section 18), will be eligible for the award of MSci Pharmaceutical Science. The classification for this exit award will be based upon the following weighting: Part 2: 20%, Part 3: 30%, Part 4: 50%.

Please note that the exit award of MSci Pharmaceutical Science does not confer eligibility for Foundation training or registration with the GPhC as a pharmacist.

Students who do not meet the requirements for obtaining the MPharm or MSci Pharmaceutical Science degree, but who meet the requirements the award of a Bachelor degree (as described in the Assessment Handbook: Section 17), will be eligible for the award of BSc Pharmaceutical Science. The weighting of the Parts/Years in the calculation of the degree classification for the BSc Pharmaceutical Science is:

Part 2: one-third

Part 3: two-thirds.

Please note that the exit award of BSc Pharmaceutical Science does not confer eligibility for Foundation training or registration with the GPhC as a pharmacist.

The GPhC does not accept Aegrotat degrees for entry to Foundation training or the Registration Assessment for pharmacists.

#### Classification

Integrated Masters' degrees

The University's honours classification scheme is based on the following:

Interpretation
First class
Upper Second class
Lower Second class

40% - 49%	Third class	
35% - 39%	Below Honours Standard	
0% - 34%	Fail	
The weighting of the	e Parts/Years in the calculation of the degree classification is:	
Integrated Masters Programmes		
Part 2: 20%		
Part 3: 30%		
Part 4: 50%		
The classification method is given in detail in: <u>Integrated Master's</u> (see, in particular, section 18.5).		

#### For further information about your Programme please refer to the Programme Handbook and the relevant module descriptions, which are available at <u>http://www.reading.ac.uk/module/</u>. The Programme Handbook and the relevant module descriptions do not form part of your Terms and Conditions with the University of Reading.

MPharm Pharmacy with Preparatory Year for students entering Foundation year in session 2021/22 18 July 2023

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