



Cardiff School of Pharmacy and Pharmaceutical Sciences

Undergraduate Degree Programme

Cardiff School of Pharmacy and Pharmaceutical Sciences

Friendly

**One of the Top UK
Schools in Pharmacy**

World-leading

“One of the best institutions in Britain . . . **this powerhouse of academic and research excellence** boasts one of the best graduate employment rates in Britain. Students don’t just get any old job either – **most secure degree level posts with decent starting salaries.**”

Sunday Times University Guide 2013

High employability

**“Excellent”
teaching**

**Dynamic
research culture**

Academic excellence

THRIVE
meet our students

Insider Information - Find out more . . .

Want to know what life at Cardiff is really like? Our Insiders are real students studying a range of subjects. You can read their blogs, post comments, ask questions and message them on Facebook and Twitter.

Introducing . . . the Cardiff School of Pharmacy and Pharmaceutical Sciences

The Cardiff School of Pharmacy and Pharmaceutical Sciences one of 29 UK schools of Pharmacy and the only one in Wales. Judged by recognised standards and in national league tables, the School is one of the top schools of Pharmacy in the United Kingdom.

Excellent teaching . . .

- ▶ In the most recent National Student Survey (2012) of teaching in UK Pharmacy schools, the School achieved overall satisfaction among its final year students of 97%. 99% of the student group agreed that the Cardiff MPharm had contributed to their personal development.
- ▶ All of our teacher practitioners are UK-qualified pharmacists.
- ▶ You will be taught in a stimulating environment, benefiting from interaction with researchers working at the frontiers of knowledge in their subjects and with teacher practitioners at the leading edge of healthcare practice.
- ▶ All members of our academic staff are doctorates of UK or leading European universities

Helping students succeed . . .

- ▶ Our Pharmacy degree is taught within the School's own building by members of its own academic staff. Our students are not farmed out to other schools or departments for parts of their course as can be the case in some other universities.
- ▶ You will have access to the support of a personal tutor, drawn from the academic staff. All personal tutors have a deputy who can be contacted if the main tutor is away from the School.
- ▶ In recent years, around 70% of our students have graduated with either a First Class or an Upper Second Class Honours degree, validated by four external examiners from other Pharmacy schools.



Outstanding facilities . . .

- Each of the main specialities in the School has its own dedicated teaching laboratory which houses sophisticated modern equipment. Most rooms and laboratories have been recently refurbished and a new clinical suite has been designed with simulated Pharmacy consultation rooms. The School also possesses a new, industry-standard Good Manufacturing Practice (GMP) suite where students learn how to prepare medicines under sterile conditions.
- Computer workstations are numerous, for work on general applications, computer-aided learning and on-line access to the library catalogue, databases and journals.
- The Bute library which serves Pharmacy staff and students is only 100 metres away.

Thriving social life . . .

- The Pharmacy student population, drawn from the UK and around the world, is ethnically and culturally diverse.
- The School is encouraging and supportive of extra-curricular activity by its students. Wednesday afternoons are reserved for such activities.
- The Welsh Pharmaceutical Students Association is run by students for students. The Association organises social and sporting activities and conference trips. Such activities add to the friendly atmosphere within the School.

World-class research . . .

- Staff of the School are undertaking research which makes a difference to drug treatment and healthcare around the world. In fact, a number of drugs which were first synthesised and developed in our laboratories have progressed to clinical trials.
- Our Pharmacy degree programme has a major element of independent, supervised project work, giving you direct exposure to the world of research.

Pathway to a bright future . . .

- Our graduates occupy key positions in NHS hospitals and hospitals overseas, in healthcare retailers such as Boots UK, Lloyds Pharmacy Group, the Co-operative Pharmacy, and in allied scientific and healthcare enterprises.
- The School has good links with these and other Pharmacy employers. For many years all of our graduates have obtained pre-registration training positions, building on the firm foundation of our respected Pharmacy degree.

Professional recognition . . .

- Our four year Master of Pharmacy degree is accredited by the General Pharmaceutical Council (GPhC) as a route of entry to the profession of Pharmacy.
- Subsequent to the degree, graduates go on to preregistration training in Pharmacy practice for a year and then undertake the GPhC's registration examination. Cardiff graduates perform excellently in this assessment; 95%-plus pass at first attempt.
- Pharmacist registration in the UK is recognised throughout the EU and in a number of other countries.



Welcome

Which subject you study for your degree and where you study for it are major life decisions. Clearly, you are sufficiently interested in Pharmacy as a subject or as a future career to have picked up, opened this booklet and begun reading.

Should you be interested in the chemical and biological sciences and have thoughts of a career in or related to healthcare, then most definitely you are right to consider Pharmacy. The science and use of medicines – and that is what Pharmacy is – has long been vital in societies around the world and now is a time of particular progress, especially in the UK.

Many pharmacists are now qualified to prescribe within the National Health Service (the NHS), a significant advance from their foundation role of the sale or supply of medicines and advice about their use. Particularly in NHS hospitals but also in the community, pharmacists are now fully integrated and valued members of the healthcare team in the UK and other developed countries. Our Pharmacy curriculum in Cardiff reflects this and other new clinical roles in the NHS. It also retains the unique science-base of the subject, which can be the springboard for a career in many parts of the pharmaceutical and related industries. Furthermore, in every generation of Pharmacy students some are so enthused by the subject for its own sake that they will embark on a research career, either within the UK or elsewhere in the world. As Cardiff is internationally recognised for its world-leading research we can and are delighted to accommodate such aspirations.

Why pick the Welsh School of Pharmacy as the place you are going to study Pharmacy? You can find many good reasons elsewhere in this booklet. I would focus on two: firstly, we are a highly rated School in national assessments of

teaching and research, and secondly, we invest as extensively in the future as any Pharmacy school in the UK; in the accommodation, the equipment and most importantly, in the staff of the School.

Equally important to the student experience are opportunities to participate in the wide range of sporting, cultural, community-support and social activities at Cardiff. My colleagues and I encourage our students to immerse themselves in such extra-curricular activities as well as the MPharm course. Your undergraduate days are special and we hope you can make the most of them in every way.

Professor Gary Baxter
Head of School

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This brochure will provide you with more details of our programmes. We hope that it will give you more than just a flavour of what we have to offer you. However, we are always ready to answer any questions you may have, by post, telephone or email, or when you come to Cardiff for a visit. You will find the appropriate contacts at the end of this brochure.

Important information. Please read carefully.

The University offers the information contained in this brochure as a guide only. It does not constitute a contract and is not binding on prospective students, students or the University. While the University makes every effort to check the accuracy of the factual content at the time of publication, some changes will inevitably occur in the interval between publication and the academic year to which the brochure relates (Entry 2013). For example, degree programmes may have changed in line with market and student demand, and research development. Applicants should not therefore rely solely on this brochure and should visit the School of Pharmacy website (www.cardiff.ac.uk/phrmy) for up-to-date information concerning course content, accreditation, and entry requirements for the relevant academic year when considering applying to the University.

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Cardiff: A capital city

“Cardiff is one of the best places to study in Britain. It has well-situated, cheap housing, lively nights out, friendly people, great shops and hundreds of miles of countryside. It is all that any right-thinking fresher could desire.”

Virgin Alternative Guide to British Universities



The University is surrounded by attractive parkland and is adjacent to Cardiff Castle and the city centre

More online at:
www.visitcardiff.com
www.cardiff.ac.uk
www.cardiff.gov.uk

Cardiff is a thriving and attractive city which is widely recognised as an outstanding place in which to live and study. It combines all the advantages of a compact, friendly and inexpensive location with the cultural and recreational facilities of a modern capital.

Cardiff offers everything from the excitement of the city to the peace and tranquillity of the nearby coast and countryside. Such is the quality of the 'Cardiff experience' that in a recent survey, a large majority of students said they would like to stay and live in the city after graduating.

With its distinctive character, good quality of life, and growing national and international reputation, it hosts many high-profile sporting and cultural events, including international rugby, soccer, cricket and motor sport, Cardiff Singer of the World and the UK's largest free summer festival.

Home to the world-renowned Welsh National Opera, it boasts prestigious concert venues such as the Wales Millennium Centre, St David's Hall and the Motorpoint Arena, as well as the iconic Millennium Stadium, the National Museum and Gallery of Wales, several theatres and the historic Cardiff Castle.

Cardiff is the location for award-winning television productions, including Dr Who, Sherlock, Torchwood and Casualty, and the Dr Who Experience in Cardiff Bay is a popular new attraction.

One of the UK's top shopping destinations, Cardiff's outlets range from the 100 stores in the new £750 million St David's Dewi Sant retail centre to indoor and outdoor markets, and a fascinating network of glass-canopied Victorian and Edwardian arcades.

Cardiff also has more urban green space than any other UK city, and offers easy access to the countryside, coast and mountains.



The Millennium Stadium nestles in the heart of the city, and is home to numerous sporting events and concerts throughout the year

Don't just take our word for it...

"Cardiff has it all: grand civic architecture in a breezy waterside location, super-smart city bars just a short hop from lovely countryside."

Guardian University Guide

Come and see for yourself...

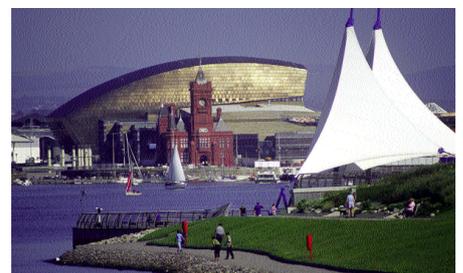
Cardiff benefits from excellent road and rail links with Britain's other major towns and cities. London, for example, is two hours by train, and the M4 links both the west and south of England, as well as west Wales. Travel to the Midlands and to the North is equally convenient. The journey by road from Birmingham, for example, takes only two hours. The main coach and railway stations are both centrally placed, and Cardiff also benefits from an international airport.

"Cardiff is a young, vibrant city. A blend of beautiful old architecture and new, cutting-edge developments. Cosmopolitan with a large student population."

Daily Telegraph Guide to UK Universities



Cardiff is one of the UK's most successful retail centres



Cardiff Bay, the city's waterfront

Cardiff: A leading university

“Cardiff offers a compelling student experience: Russell Group research credentials, the full gamut of traditional undergraduate degree courses and relatively affordable living with hot and cold running nightlife on tap.”

Sunday Times University Guide



Cardiff University has an international reputation for excellence in teaching and research, built on a history of service and achievement since 1883, and recognised by our membership of the Russell Group of leading research-led universities.

With attractive and compact campuses, excellent student accommodation, and a hugely popular Students' Union, all within easy walking distance of each other in a thriving city, it is not surprising that Cardiff is a university of first choice among well-prepared applicants.

We admit approximately 4,500 undergraduate entrants each year, the very large majority of whom are school and college leavers, and have top grades at A-level or equivalent. While competition for entry is strong, Cardiff is an inclusive university with a good record on widening access and increasing participation, and we welcome applications, irrespective of background, from everyone with the potential to succeed at Cardiff University.

The University's Cathays Park campus is located in and around the impressive Portland stone buildings, parks and wide tree-lined avenues that form Cardiff's attractive civic centre. The majority of academic schools are located here - just a few minutes' walk from the city centre. The four academic

schools offering healthcare courses (excluding Optometry and Pharmacy) are based at the Heath Park campus, approximately one mile away, which is also home to the University Hospital of Wales.

Although dating from 1883, Cardiff is focused on the 21st century, and has modern state-of-the-art buildings and facilities. The University has invested £200 million in its estate in recent years and most academic schools have benefited from major refurbishment, including new and well-equipped laboratories, lecture theatres, libraries and computing facilities.

The University takes its environmental, safety and security responsibilities very seriously. We have recently introduced a comprehensive Energy, Water and Waste Policy, which is already making great savings in energy consumption. To support the safety and security of all members of the University community and their property, there is 24-hour security cover throughout the campus.

What the Guides say

"The University is as confident and forward-looking as the city it's located in, and has an excellent reputation for the quality of its teaching and research. Almost 60% of its research is ranked as world leading and it is a member of the Russell Group of leading universities."

Guardian University Guide

"Cardiff is a tip top uni academically . . . hugely popular with its students. Is Cardiff perhaps the best kept secret among Britain's universities?"

Virgin Alternative Guide to British Universities



Living in Cardiff

As a fast developing capital city, Cardiff is a great place to be a student. It's large enough to offer you an exciting variety of activities and entertainment, but small enough for you to feel comfortable in.

Accommodation

Cardiff offers guaranteed University accommodation, good quality and value, and a range of residences to suit individual preferences and budgets.

All first year undergraduates who apply during the normal UCAS admissions cycle are guaranteed a place in University residences.

The University is continually investing in its student residences, and the views of students are taken into account at the design stage. Unusually for a civic university, most of our residences are within easy walking distance of lecture theatres, libraries, laboratories, the Students' Union and city centre.

There are 14 different residences, providing more than 5,300 study bedrooms and students can apply for the residences which best suit their preferences, interests and budgets. Some 70% have en-suite shower and toilet facilities and all halls of residence have computer network connection points and access to Wi-Fi.

Fees depend on the facilities included and whether catered, part-catered or self-catered, but prices compare very favourably with those of other UK universities.

Besides managing University property, the Residences Office maintains close links with the private sector and provides property listings to students seeking to rent or share houses or flats.

Student Life

The Students' Union

Cardiff Students' Union is one of the biggest, best and most active in Britain. Solus, the Great Hall and the Taf Bar are among the Union's major attractions. Solus is the students' own high quality nightclub, and is the second largest in South Wales. The Great Hall is a 1,500 capacity venue for major concerts and the Taf Bar is the Union's very own 'local'. Other facilities include CF10, a café offering a variety of hot and cold food, a general shop and off licence, University bookshop, computer shop, a games room and video arcade, five full-size snooker tables and twelve pool tables, satellite TV, banking and insurance services.

The Union also has its own letting agency and Student Advice centre. In addition, it is home to CU TV and Xpress Radio (the students' own TV and radio stations) and more than 150 cultural, political, religious, social and sporting societies.

Jobshop

The Unistaff Jobshop is a student employment service that provides casual, clerical and catering jobs around the University to hundreds of students.



All study bedrooms in the halls of residence have computer network connection points and access to Wi-Fi



The Fitness and Squash Centre is located at the heart of the main campus

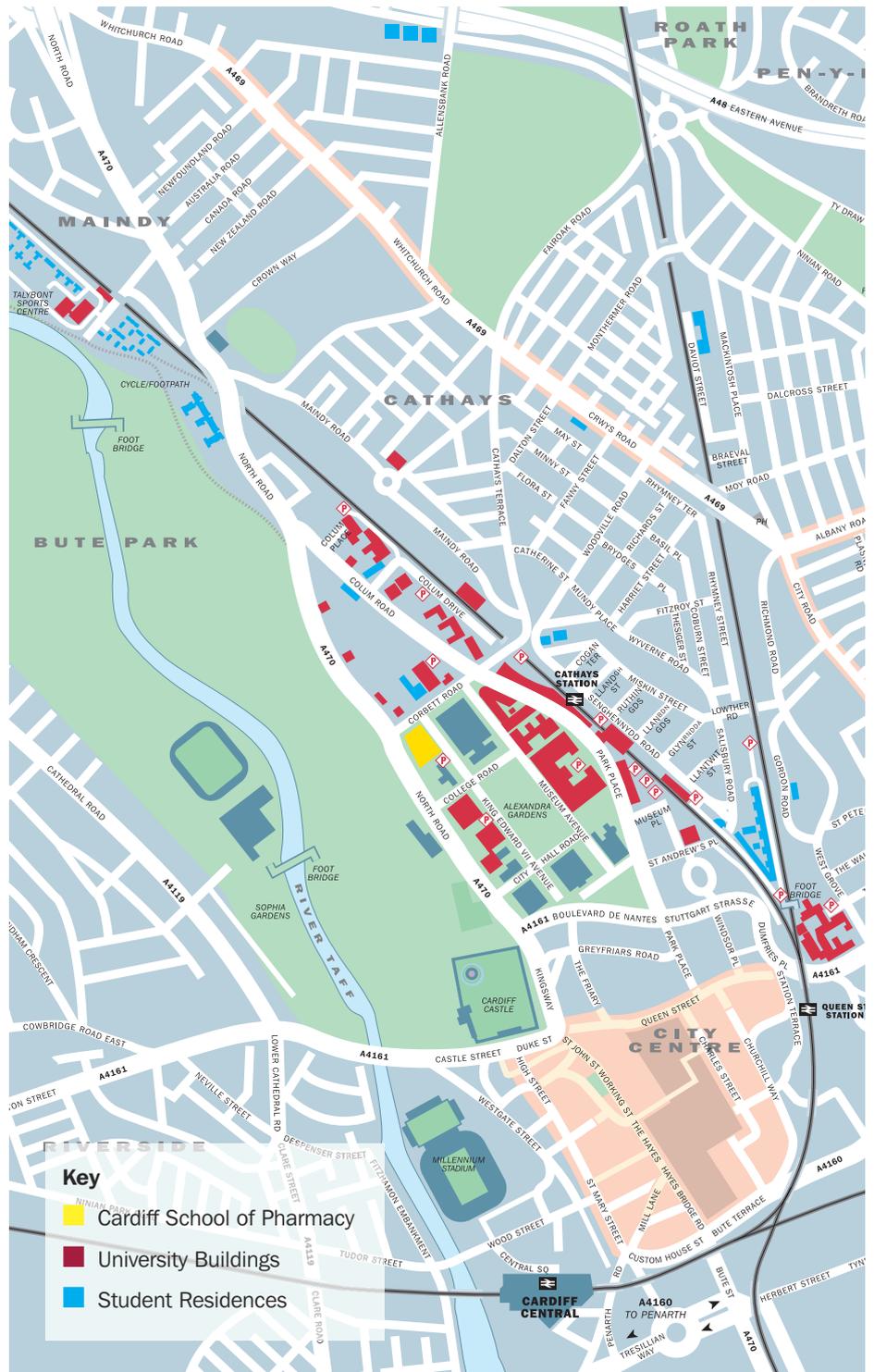


Solus is the Students' Union high quality nightclub

More online at:
www.cardiff.ac.uk
www.cardiff.ac.uk/residences
www.cardiffstudents.com
www.cardiff.ac.uk/thrive



Students have access to a wide range of modern facilities, including Skype booths



What the Guides say

“Cardiff Students’ Union is the biggest and best equipped in Britain.”
The Independent

“Cardiff Students’ Union is independently recognised as the biggest and best in Britain.”
Equitable Student Book

“The Students’ Union provides an excellent range of facilities, clubs and societies.”
The Times Good University Guide

“Guaranteed accommodation in halls and houses for first years. Very high quality and relatively cheap.”
Equitable Student Book

How to find the School

The Cardiff School of Pharmacy and Pharmaceutical Sciences is situated in a central position within the University campus, yet within five minutes walking time of the main city shopping complex and Cardiff’s magnificent Civic Centre.

Studying Pharmacy in Cardiff



Elin Evans

Choosing to study Pharmacy at Cardiff was definitely one of my best decisions. The Redwood building is just for Pharmacy students so it feels like a really close community and all the tutors are friendly and open. The course is so varied; our lectures are interspersed with labs, workshops and now our very own GMP suite.

I'm currently on the Staff-student panel (SSP) which is made up of three or four representatives from each year and six members of staff. I represent the student body by contributing views and other students' feedback to the staff on academic issues. We meet regularly to facilitate decision-making to improve the overall student experience at Cardiff University.

Cardiff School of Pharmacy and Pharmaceutical Sciences

- ▶ The School is housed in the Redwood Building, named after Theophilus Redwood, who was the first Professor of Pharmacy in Britain from, 1842 until 1885, and one of the most eminent pharmacists of all time.
- ▶ There are over 40 members of full-time staff and a very active undergraduate student organisation, WPSA – the Welsh Pharmacy Students' Association, as well as a Society for postgraduate students.
- ▶ The School houses the Welsh Centre for Pharmacy Professional Education (WCPPE) which provides continuing education opportunities as well as facilitation for Continuing Professional Development (CPD) to the 3,500 or so pharmacists and pharmacy technicians who work in Wales. WCPPE is thus a cornerstone of the School's service to the profession in Wales.

What will it be like?

- ▶ Ours is a long-established School of Pharmacy. It opened in 1919 and has developed and expanded continuously since then. Our students tell us that they are aware and proud of this heritage and are determined to be a credit to the School and the generations of Pharmacy graduates who have gone before them.
- ▶ Our School today is at the forefront of pharmaceutical science and developments in Pharmacy practice and

its graduates are among the best-prepared in the world for their exciting future careers in healthcare, in research, in the pharmaceutical industry and in closely-related fields.

Personal Tutor

- ▶ The personal tutor system is a central part of student support within the school. The role of the personal tutor is to monitor academic progress and to provide feedback and advice to tutees. Tutors also provide personal support, acting as the first point of contact and a gateway to the student support services provided by the University and the Students' Union.
- ▶ Each student is assigned a deputy as well as a main personal tutor, so that if the main tutor is unavailable – perhaps overseas at a scientific conference – they may see the deputy.
- ▶ The tutor system acts in parallel with the Welsh Pharmaceutical Students Association (WPSA) 'big brother/sister' scheme, wherein each Year 1 student can if they wish confer with a student who is further on in the programme.

Teaching, Learning and Assessment

- ▶ As you progress through your degree we will raise your expectations of the depth and breadth of your studies.
- ▶ Our overall objective is to encourage you to become an independent learner, able to undertake and understand new



challenges in the use of medicines and in healthcare, and to respond to them effectively. You can expect the teaching staff to help you achieve this independence.

- ▶ You will be taught and assessed through a combination of lectures, practical classes, workshops, practice placements and seminars, complemented by individual and group assignments and, of course, your own private study. Study will become more demanding as you progress.
- ▶ Teaching is organised in modules, over two semesters (Autumn: 14 weeks and Spring: 17 weeks) in each of which there are 11 teaching weeks; the remainder being reading or examination weeks. Christmas, Easter and summer vacations are not affected by the semester system.
- ▶ Our teaching is supported by a substantial reliance on web-based and other learning resources, to which you will have access throughout your studies. We make use of a 'virtual learning environment' (see learningcentral.cf.ac.uk).
- ▶ Your progress in each module will be assessed during and at the end of the semester in which it is taught. Modules sometimes include formative assessments (assessments which do not count towards your module mark) which are intended to assist your understanding and to provide you and your tutors with an indication of your progress.
- ▶ Methods of summative assessment (assessments which count towards your module mark) are varied; essay assignments, multiple-choice question examinations, conventional written examinations, assessed presentations and practical or skills tests are all used as appropriate.

Staff Student Panel

- ▶ The Staff-Student Panel (SSP) consists of representatives from each year, 14 in all and five members of staff. The SSP discusses and aims to resolve any concerns or problems that students and staff may have about any aspect of the course.
- ▶ Recent topics of discussion leading to improvements have included: The amount of content in a workshop vs. time available, allocation of fourth year research projects, possibilities of recycling within the refectory, availability of past papers in preparation for exams, and rearrangement of practical groups within the MPharm degree.
- ▶ The SSP aims to give students the opportunity to voice their opinions and has resolved several issues that have been identified in the past.



Grant Sugiura

As the Social Secretary for WPSA it's my responsibility to organise and host socials for the whole of Pharmacy on a monthly basis. It's really important with such a demanding course to be able to unwind, relax and have some fun. The socials I organise do just that.

Ranging from 'Co-Op Pharmacy Speed Interviews' to pub nights our socials provide not only a good night out, but also events which boost skills and employability. All money raised goes to charity, and expenses are paid for by our affiliation with the most exclusive venues and establishments around the city. Members of WPSA get discounted entry to our socials so sign up at the beginning of the year to ensure cheaper entry all year round!

Adam Brelsford

During my time here at Cardiff, I have built up in order to enter into a valued and esteemed profession. Through lectures, workshops, and practical classes, I have been acquiring knowledge and skills which I will be putting into practice once I enter working life. Beyond education, I have been fortunate enough to gain employment through the School; two community pharmacy jobs, and a summer research placement at the School itself, which was very interesting and worthwhile. I hope to go on to do a split industry/hospital pre-registration year, and aim to work in medical writing after that.

Master of Pharmacy

There are four themes within the MPharm programme: **Chemistry, Drug Delivery, Pharmacology and Pharmacy Practice**. What they are and some of the ways they fit together are as follows:



Cardiff pharmacology graduates acquire a high level of laboratory skills

Chemistry

Chemistry is concerned with the molecular properties of drugs – the active ingredients within medicines. It addresses the synthesis of drugs, their reactivity with other molecules and the analysis of drugs. Chemistry in a Pharmacy context is chiefly organic chemistry and is often specifically referred to as pharmaceutical or medicinal chemistry.

Drug Delivery

When the pharmacist has a safe and effective drug molecule, a significant challenge is to get the drug to the correct place in the body, at the correct concentration and for the proper duration of time for it to have its therapeutic effect, to cure or relieve the patient. This is where the Drug Delivery theme comes in. The drug has to be incorporated with other ingredients

(excipients) into a medicine. The medicine might be a tablet to be taken by mouth, it might be a cream to apply to the skin, or it could be a powder to be inhaled into the lungs. Drug Delivery is concerned with the design and manufacture of these and other types of medicines; injections, eye drops, etc, to an appropriate quality standard.

Pharmacology

Once the drug is delivered to its site of action in or on the body, there is the matter of how it works. Pharmacology is the study of the actions of drugs on living tissues. Obviously, for a Pharmacy course the main interest is how drugs work for their curative effects on human patients.

At the heart of Pharmacology is the study of how drugs work at the molecular level, but it is also more than that. The Pharmacy student studies how the body works in health and

disease (incorporating genetics, biochemistry, immunology, physiology, pathology and microbiology) to better understand how drugs have their therapeutic effects and are used to benefit patients.

Pharmacy Practice

Pharmacy Practice comprises the clinical, social and legal aspects to Pharmacy. Pharmacy Practice is perhaps best thought of as the study and development of skills in the interaction of the pharmacist with doctors, nurses and other health professionals, non-professional carers (family and friends) and, most importantly, patients themselves. Students learn to check and dispense prescriptions, to give advice on the use of medicines, to manage patients' conditions by the use of medicines sold from the pharmacy or, increasingly, prescribed by the pharmacist her/himself.



An Integrated Course

Just as important as the four individual subject themes of the MPharm programme is how they fit together, what we call inter-disciplinarity. The chemistry of a drug, its chemical properties, e.g. its solubility, has a profound effect on its delivery to its site of action in the body. Drug chemistry also influences the pharmacological actions of a drug. A change in a functional group on a drug molecule can greatly affect its potency or the nature and severity of its potential side effects. There is a very close interaction of drug delivery and pharmacology in the matter of how drugs are absorbed, distributed around the body, metabolised and eventually excreted. Understanding from pharmacology is useful, indeed vital, in Pharmacy Practice. From pharmacology one can anticipate, for example, interactions between drugs that a patient is taking, with beneficial or potentially problematic outcomes.

In the design of our programme and in the way that we teach we continually make and explain these connections. This inter-disciplinarity can be challenging, but for many students this is one of the things they want from or come to enjoy about studying Pharmacy with us. You can see below the pattern of modules that make up our MPharm curriculum. Beyond Year 1, module marks contribute to the eventual degree classification; 20% from Year 2, 30% from Year 3 and 50% from the final year.

Year One

- ▶ Molecule to Patient
- ▶ Physical Pharmacy
- ▶ The Role of the Pharmacist in Professional Practice
- ▶ Structure and Function of Cells and Microbes
- ▶ Human Body Systems
- ▶ Chemical and Biological Properties of Drug Molecules

Year Two

- ▶ Introduction to Drug Design and Synthesis
- ▶ Formulation Science
- ▶ Instrumental Analysis
- ▶ Clinical and Professional Pharmacy
- ▶ Cardiovascular, Respiratory and Gastrointestinal Therapeutics
- ▶ Drug Disposition
- ▶ Pharmaceutical Biotechnology and Clinical Immunology

Year Three

- ▶ Optimisation of Drug Design
- ▶ Endocrine and Autacoid Therapeutics
- ▶ Optimisation of Pharmaceutical Care
- ▶ CNS Pharmacology and Therapeutics
- ▶ Design, Formulation and Quality Assurance of Medicinal Products
- ▶ Research Methodology

Year Four

- ▶ Problem-Solving in Pharmaceutical Sciences
- ▶ Pharmacy Advanced Research Specialisation
- ▶ Problem-Solving in Pharmacy Practice-I
- ▶ Pharmacy Research Project
- ▶ Problem-Solving in Pharmacy Practice-II

Your Working Week

We are sensitive to the ways students have been taught in secondary schools and colleges and will break you in gently to new ways of working, but we will also expect and help you to become more independent and self-directed in your learning as you progress through the course. Consequently, the pattern of teaching and support for learning is rather different between Year 1 and Year 4. By Year 4, you will spend less time being 'taught' and more time finding out for yourself, especially within your final year research project.

Employability and Careers



The Pharmacy degree at Cardiff will equip you with the knowledge and skills you will need to embark on a career as a pharmacist.

Hospitals, community pharmacies and the pharmaceutical industry all provide employment opportunities.

You will be given assistance in finding a pre-registration post and, at the present time, undergraduates of the School are able to secure suitable posts. The pie chart shows the early career destinations of Cardiff Pharmacy graduates over the past few years.

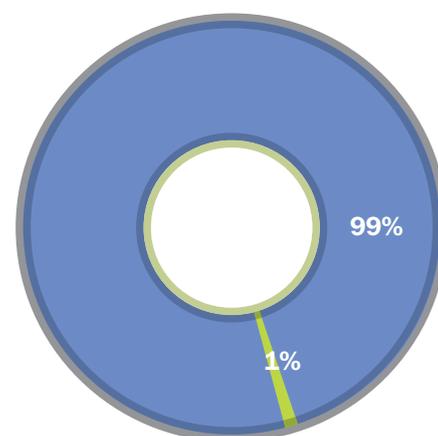
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Profile text

Careers and Employability Service

The University offers a careers and employability service for students, graduates and postgraduates. You can access careers information, explore your options and speak to a consultant who can advise you of opportunities relating to your degree or preferred field, including advice on postgraduate degrees. The service offers guidance on preparing a CV and job applications and gives you the chance to meet and network with top graduate recruiters at Careers Fairs and events. If you are looking for work experience, the careers service can assist with planning and organising your placement.

www.cardiff.ac.uk/carsv



Key figures 2010

● Employment	44%
● Not Available	2%

Becoming a Pharmacist



Pharmacy is the study of medicines and their use. Study of Pharmacy is usually as a basis for and on the route to qualification as a pharmacist. Consequently, the Pharmacy degree course is vocationally orientated. It is focused on the knowledge and skill needs of future pharmacists.

The Master of Pharmacy, (abbreviated MPharm) programme is of four years' duration. After gaining his or her MPharm degree, a Pharmacy student must undertake a year's pre-registration training in pharmacy practice, based in a hospital or community pharmacy (or sometimes a combination of the two) before becoming eligible for registration as a pharmacist with the General Pharmaceutical Council (GPhC), the regulatory body for Pharmacy.

Registration is subject to approval by the student's practice tutor and passing the GPhC's registration examination. Most MPharm graduates have no difficulty achieving these requirements; certainly this is the case for Cardiff graduates. Separately from this, pharmacists and pharmacy undergraduates, as student members, can join the professional body, The Royal Pharmaceutical Society

Student Code of Conduct and Fitness to Practise

In view of the vocational orientation of the MPharm degree, the GPhC has introduced a new Student Code of Conduct and Fitness to Practise procedures in schools of pharmacy. For further information, see www.pharmacyregulation.org

These principles and procedures came into force in 2010.

One consequence is that our students must undergo regular checks to establish that they are of good character. These include Disclosure and Barring Service (DBS) checks. Failure to undergo such a check will result in a student being unable to join or complete the course.

The GPhC produces its own literature and has its own webpages devoted to the Code of Conduct, Fitness to Practise and pharmacist registration, covering what it means to be a pharmacist and career opportunities in Pharmacy.

You can contact the General Pharmaceutical Council by post or email at:

General Pharmaceutical Council
129 Lambeth Road, London SE1 7BT

www.pharmacuregulation.org

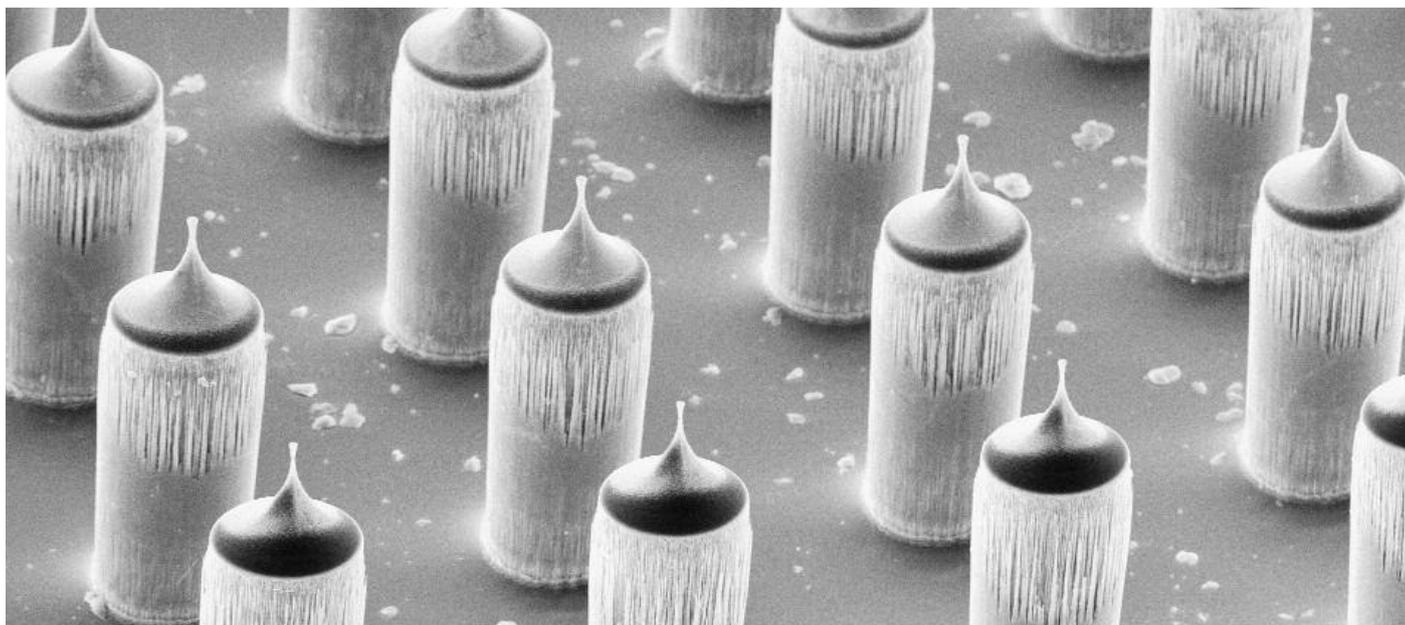


Lizzie Elton-Walters

Moving away from home to University was a big step for me, but it was definitely the right one! Looking back at my four years at The Welsh School of Pharmacy as an undergraduate I can't believe how much I learnt and how many friends I made. From the basics of pharmacology in first year to my own research project, working alongside experts in their field in fourth year, everything has been brilliant. Now, thanks to the support of the School, I am a pre-reg at my first choice hospital, and putting the knowledge into practice!

Research and Higher Degrees

The School has a strong reputation for the quality of the research that it conducts and attracts large research grants from a variety of sources.



The research of the staff and postgraduate students leads to the publication in scientific journals of many articles each year. This also means that our teaching is at the forefront of new knowledge and understanding, with staff lecturing on subjects they are personally involved with developing.

The current research interests of the School are widespread and include the following areas:

- ▶ **Medical Chemistry** – which includes synthetic medicinal chemistry to produce new anti-cancer and anti-infective drugs.
- ▶ **Drug Action** – which includes studies of cancer and heart disease, antimicrobials, asthma and Alzheimer's disease.
- ▶ **Drug Delivery** – which includes studies on transdermal absorption, the respiratory tract, oral formulations, nanotechnology and pharmacokinetics
- ▶ **Health and Medicines** – which includes drug use evaluation, drug safety, quality of life measures, pharmacoconomics and management of health and illness.

Higher Degrees

At any one time, the School has about 60 students studying for PhD qualification by research and 200-plus students on postgraduate taught schemes. The taught programmes have been developed in collaboration with the NHS, the pharmacy

profession and the pharmaceutical industry to provide practitioners with expert knowledge and a range of new and updated skills.

Postgraduate taught courses include:

- ▶ Clinical Pharmacy
- ▶ Clinical Research
- ▶ Pharmacy Clinical Practice in Community and Primary Care
- ▶ Prescribing for Pharmacists and Nurses
- ▶ Pharmacoconomics and Health Economics

The taught programmes have been developed in collaboration with the NHS, the pharmacy profession and the pharmaceutical industry . . .

Matt Ivory

The Cardiff School of Pharmacy and Pharmaceutical Sciences is consistently rated one of the top schools that offer the MPharm program and also offers a range of opportunities outside of the degree program. I undertook a summer research placement in one of the labs funded by a Wellcome Trust grant partway through my time as an undergraduate. This allowed me to accrue a wealth of practical laboratory experience and led to the publication of peer-reviewed journal articles. This allowed me to obtain an industry-split pre-registration placement following graduation (one of less than ten places available in the country)- working for 6 months for Bristol-Myers Squibb and 6 months at Whiston Hospital in Liverpool to qualify as a pharmacist. Following my qualification as a pharmacist, I returned to Cardiff and am currently completing a PhD looking into vaccine targets for HIV. Having qualified as a pharmacist, I can complete part-time locum work, earning a comfortable wage to help supplement my income. The Cardiff School of Pharmacy and Pharmaceutical Sciences is a great venue to complete the MPharm degree and offers the training necessary to obtain the most sought-after pre-registration training positions in the community, hospital and industrial pharmacy sectors.

More online at:
www.cardiff.ac.uk/applyingtocardiff
www.ucas.com
www.cardiff.ac.uk/scholarships

Applications



Application Process and Entry Requirements

To be considered for a place to study at Cardiff you should apply online via the UCAS website using the 'UCAS Apply' facility at: www.ucas.ac.uk/apply. The website will provide you with the information on how to apply and explain the procedure. Applications should be completed by 15th January.

After we have received and considered your application, we may invite you to visit the School for an interview sometime during the period November to early March. This will include a guided tour of the School. Under normal circumstances, students will not receive an offer without an interview. If you are an international student we can conduct an interview by telephone.

Number of places available in the first year: **120**

Typical number of applications: **800**

Equal Opportunities

Cardiff University is committed to promoting equality and diversity in all of its practices and activities, including those relating to student recruitment, selection and admission. The University aims to establish an inclusive culture which welcomes and ensures equality of opportunity for applicants of all ages, ethnicities, disabilities, family structures, genders, nationalities, sexual orientations, races, religious or other beliefs, and socio-economic backgrounds. This commitment forms part of the Equality and

Diversity Policy, which is available at: www.cardiff.ac.uk/cocom/equalityanddiversity/index.html

Applicants with Disabilities/Equal Opportunities

All offers to study at Cardiff University are made solely on the basis of academic merit. Where applicants have specific requirements that relate to a disability or medical condition, they are encouraged to discuss these with relevant staff in order that appropriate arrangements can be made to ensure the University provides an accessible environment. Specifically, applicants are invited to contact the Disability Adviser who can provide information about the applications procedure, course delivery and access to the physical environment. Where appropriate, informal visits can be arranged in which applicants can view accommodation and meet academic staff.

The Disability Advisor can be contacted at:

Student Support Centre
 50 Park Place
 Cardiff CF10 3AT
 Tel: **029 2087 4844**
 Email: disability@cardiff.ac.uk

Open Day

A University-wide Open Day is held in April each year and provides the opportunity to visit all academic schools in addition to the residences, the Students' Union and sports

There are a range of opportunities to visit the University

facilities. The Cardiff School of Pharmacy and Pharmaceutical Sciences arranges laboratory demonstrations and talks during this event. In addition, University visit days are held in July and September. The latter do not include entry to the School. All UCAS applicants shortlisted for an offer of a place on the programme are invited to tour the School at the time they attend for interview.

Entry Requirements

A-levels: Typically AAB/ABB including Chemistry and at least one other science subject, preferably Biology, Mathematics or Physics. General Studies and Critical Thinking are not considered as a third A-level.

AS-levels: Two AS-level subjects may be considered in lieu of a third A-level; one AS-level must be of some relevance to Pharmacy.

GCSE: A biological subject or a double science award at grade B if biology has not been studied at A-level. Mathematics at grade B and English at grade C though preferably at grade B.

Other: International students can find entry requirements for some non-UK qualifications on our website. Those offering alternative qualifications are considered and should contact the Pharmacy UG Admissions Student Office (see address on next page) by email or letter – not by telephone – detailing their qualifications and experience.

Website

Details about the School can also be found at: www.cardiff.ac.uk/phrmy

Notes for Welsh Language Applicants

We recognise that if you are a Welsh speaker you may feel more comfortable speaking to a Welsh speaking personal tutor. Provided there are Welsh speaking members of staff in your subject area, every effort will be made to allocate a Welsh speaker to you.

Some of the accommodation at Senghennydd Court student residence has been allocated for Welsh speakers and learners who would like to be grouped together. If you would like to take advantage of this please make a note of this on your accommodation form.

Tuition Fees and Financial Assistance

The University charges an annual fee which covers all tuition fees, registration and examinations other than the re-taking of examinations by students not currently registered. Please note charges for accommodation in University Residences are additional.

Please see the following website for more information: www.cardiff.ac.uk/fees

Scholarships and Bursaries

For more information please visit the following website:

www.cardiff.ac.uk/scholarships

Useful websites for information about tuition fees and financial assistance:

Cardiff University website:
www.cardiff.ac.uk/fees

Student Support Centre website:
www.cardiff.ac.uk/financialsupport/index.html

Student Finance Wales
www.studentfinancewales.co.uk

Student Finance England:
www.studentfinanceengland.co.uk

Student Loans Company
www.slc.co.uk

This document can also be made available in large print (text), Braille and on audio tape/CD. To request an alternative format, please contact
Laura Roberts:
Tel: **029 2087 4455**
Email:
RobertsL9@cardiff.ac.uk



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Thank you.





To find out more about the Cardiff School of Pharmacy and Pharmaceutical Sciences, please visit our website:
www.cardiff.ac.uk/phrmy

THRIVE
meet our students

Got questions about student life?
Get them answered at:
www.cardiff.ac.uk/thrive

Some of our current students are sharing their experiences online through their Facebook pages, so if you want to know what life as a student at Cardiff is really like, then you can find out now. There is also lots of information about what is happening in Cardiff, including articles written by our students, videos, and much more.

Enquiries

Tel: **029 2087 0000**
Email: pharmacy@cardiff.ac.uk

UG Admissions Student Office
Welsh School of Pharmacy
Cardiff University
King Edward VII Avenue
Cathays Park
Cardiff CF10 3NB

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