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The University of Bradford - **Confronting Inequality. Celebrating Diversity™**

The University of Bradford is committed to promoting equality, diversity and an inclusive and supportive environment for students, staff and others closely associated with the University in conformity with the provisions of its Charter.

WELCOME FROM THE HEAD OF THE BRADFORD SCHOOL OF PHARMACY

Welcome to the course brochure for the all new Master of Pharmacy (MPharm) offered by Bradford School of Pharmacy (BSP). I hope you enjoy reading it and want to learn more about our programmes. At BSP we pride ourselves on being innovative and wanting to push out the boundaries in both our teaching and our research. We introduced the sandwich course 40 years ago and now the Modernising Pharmacy Careers Programme Board has recognised the value of learning in the workplace and where we have led others will follow.



The course described in this brochure has been designed on modern educational principles and employs the latest educational technologies from sophisticated simulation to Quizdom. Our interactive curriculum map will help guide an MPharm student through the course helping them make the most of the exciting learning opportunities available to them at Bradford. However, even the best learning environments need a group of dedicated teaching staff at their core and here at BSP we have a team of health care scientists and educationalists, over half of whom, are registered pharmacists. We are committed to making our graduates fit for the future but also helping them on their journey to be the healthcare leaders of tomorrow.

I look forward to welcoming you in person to the Bradford School of Pharmacy.

A handwritten signature in cursive script that reads "Kay Marshall".

Professor Kay Marshall

Head of the Bradford School of Pharmacy
BPharm PhD FRPharmS MBA

Pharmacy: the profession

Pharmacy: the profession

A Perspective

Pharmacy is a science-based profession that specialises in managing the use of medicines in the clinical treatment and prevention of disease.

Pharmacy is a broad and challenging profession in which pharmacists are key members of a healthcare team. It is a rewarding career that involves extensive contact with patients to enable them to take their medicines safely and appropriately. A career in pharmacy allows you to work in a variety of different sectors such as community, hospital, industry, primary care, GP Practice, academia etc. It is an exciting time to be joining pharmacy, the role of the pharmacist is evolving with the introduction of new services and high expectations from the UK government. We are now regulated by the General Pharmaceutical Council (GPhC) and have a separate leadership body known as the Royal Pharmaceutical Society.

The pharmacist is a consultant on the preparation and use of medicines and is an essential member of the healthcare team. The pharmacist is the person with responsibility for the preparation, the appropriate and safe clinical use and the supply of medicines to patients. By law, every pharmacy must have a responsible pharmacist who is legally responsible for the safe and effective running of that pharmacy. Only registered pharmacists may take responsibility for the provision of medicines in a hospital. The role has evolved from that of supplier, which is being delegated to pharmacy technicians, to that of a clinical adviser and manager of medicines. Accredited pharmacists are now prescribing medicines for the NHS as Supplementary and Independent Prescribers, an exciting role that all pharmacists will be eventually trained to carry out.

Pharmacists have an enhanced role to play in the delivery of public health. In the White Paper entitled, "Healthy lives, Healthy People" the government says community pharmacies as a valuable and trusted public health resource.



Entry to the profession of pharmacy is regulated by the newly established General Pharmaceutical Council (GPhC).

In order to be eligible to register as a pharmacist, you must:

- hold a Masters-level degree in pharmacy awarded in the United Kingdom, which has been accredited by the General Pharmaceutical Council.
- satisfactorily complete one year of pre-registration experience in an approved pharmaceutical establishment under the guidance of a pharmacist.
- pass the registration assessment normally held towards the end of the pre-registration year.
- Complete the application process by declaring your fitness to practise and a health declaration

Upon registration with the General Pharmaceutical Council and can call yourself a pharmacist on payment of your annual renewal fee. Pharmacists and Pharmacy students are also able to join the pharmacy leadership body known as the Royal Pharmaceutical Society.

About Us

The University of Bradford received its Royal Charter in 1966, but the origins of Bradford School of Pharmacy date back to 1927. Throughout its rich history there has been a drive to innovate, which is exemplified by the work of the School today. We now deliver a number of Undergraduate and Postgraduate Programmes (with strong emphasis on lifelong learning) to approximately 1,000 students, taught and supported by dedicated academic, technical and administrative staff. Our undergraduate MPharm course is the only one in the country to embed two separate six-month periods of pre-registration experience; this course commenced in 1970 and remains unique in pharmacy education.

A major driver for innovation is employer needs, which link closely with the Government's agenda for the NHS in which pharmacists play key roles. Bradford School of Pharmacy has therefore taken the lead in embedding key skills within our courses. Such initiatives, linked with fresh curricula, ensure that our students leave Bradford School of Pharmacy 'fit to practise', with a drive for continuing professional development. It is not surprising, therefore, to find many of our alumni holding key posts across the pharmacy professions both in the UK and abroad.

Bradford School of Pharmacy (scored 23/24 (Excellent) in the latest subject specialist

review of teaching quality. In the latest Research Assessment Exercise, 2008, 85% of our research was recognised as of international quality, with 15% being world-leading.

Fall-Back Awards

The vast majority of our students complete the course and go on to become pharmacists. However, should you not progress to the final stage of the course then you may qualify for a fall-back award such as the degree of Bachelor of Science in Pharmaceutical Studies. Please note that this fall-back award is not recognised by the General Pharmaceutical Council, and you will not be able to register as a pharmacist.

Study Pharmacy at Bradford

Bradford School of Pharmacy's aim is to produce pharmacists who, on graduation, are fully equipped to practise within a dynamic healthcare system, can adapt to change and who understand the need to commit to continuing education and professional development throughout their professional life.

We offer two undergraduate programmes, both leading to the degree of MPharm. You can study our unique and highly-regarded 5-year Sandwich Programme which includes your GPhC registered pre-registration training, or alternatively our 4-year continuous MPharm course. Although this course does not include pre-

registration training, Bradford School of Pharmacy still embeds exposure to practice as part of the ethos of the course. After 4 years, with support and guidance from staff, you would then need to organise your own pre-registration year. Both courses enable you to achieve registration as a pharmacist within five years.

A Friendly and Supportive Atmosphere

As one of approximately 175 undergraduate students we enrol each year, you will work in an atmosphere conducive to serious but enjoyable study. Education at Bradford School of Pharmacy is supported by enthusiastic, caring and approachable staff who are committed to ensuring that graduates are fully prepared for the many roles that pharmacists undertake. Should you have any problems, your personal academic tutor will be on hand to help out.

Excellent Graduate Employment Record

In 2009, 100% of our graduates entered employment or further education.* The average starting salary for graduates commencing work as pharmacists in the year 2009 was £33,338.

* *These statistics are derived from annually published data based on those UK domiciled graduates who are available for employment and further study and whose destinations are known.*

“ There is much more to pharmacy than in the past. With a pharmacy degree you can work in many fields – community, hospital, research, academia, and industry. ”

Nikki – 5-year sandwich MPharm





Curriculum 2012

Welcome to the Bradford MPharm curriculum

The current Bradford pharmacy curriculum for both MPharm programmes was introduced and accredited in 2007. For September 2012, Bradford School of Pharmacy is preparing and planning to implement a brand-new pharmacy curriculum. 'Curriculum 2012' is designed by pharmacists using adult learning theory to develop the skills for you to practise as a pharmacist in 2016 and beyond. This innovative and revolutionary curriculum has been built with advice from leading pharmacists, employers and other key stakeholders to achieve the patient-centred outcomes needed by pharmacists in practice. Our aim is to have an engaging curriculum which will create a capable pharmacist practitioner. The curriculum places an emphasis on health problems and pharmacy interventions within the local community. Please note this curriculum is subject to approval by internal validation and external GPhC accreditation in Spring 2012.

Bradford School of Pharmacy Curriculum 2012

Our curriculum has a number of key features, plus many more which blend together to produce a nurturing and challenging higher educational environment, with students at the centre.

- Designed using educational theory
- Designed to prepare you with the skills and knowledge you will need for your first day in pre-registration training
- Develops skills in critical thinking, problem solving, communication, leadership, reflection and professionalism
- Presented as a 'spiral curriculum'
- Key themes that are designed to integrate the pharmaceutical sciences and professional practice
- You will have contact with patients in each stage of the course

- You can choose your own study topics and develop or pursue a specialist interest
- Develops skills and knowledge in health promotion and health education

What will a Bradford MPharm graduate be able to do?

During your time with us we will enable you to develop the confidence and competence to; consult with patients, manage minor ailments, review a patient's medicines, process prescriptions, critically review scientific evidence, educate patients and provide advice on how to prevent illness and disease, all with the aim of providing high-quality pharmacy care.

Our 'new' MPharm curriculum aims to develop pharmacy students who can demonstrate the following attributes on the first day of their pre-registration training:

- can apply their knowledge, skills and attitudes in a manner appropriate to someone commencing professional practice;
- can deliver high-quality, culturally congruent* pharmacy care;
- are effective problem solvers, capable of applying logical, critical, and creative thinking to a range of problems;
- are prepared for lifelong learning in pursuit of personal development and excellence in professional practice;
- can work both autonomously and collaboratively as professionals;
- are committed to ethical action, social responsibility and sustainable development as a professional and as a citizen;
- can communicate caringly and effectively in professional practice and as a member of the community.

* *Pharmacy care that is customised to fit the patient's/client's cultural values, traditions, practices and lifestyle.*

How will I study?

Bradford School of Pharmacy offers a range of learning opportunities and provides state of the art facilities in which to undertake them. We have a well equipped Clinical Skills Suite, which features an extensive dispensing laboratory; our own community pharmacy; hospital ward and a number of seminar rooms. Our pharmacology facilities are dry laboratories which include simulation software and computers to enable all of our students to have the same learning experience. Our pharmaceutical processes laboratory is equipped with up to date manufacturing equipment and has been refitted and more recently, we have invested in a new aseptic suite.

Our facilities in conjunction with **Curriculum 2012** are designed to develop independent learners who possess the skills to manage their own life-long learning needs; accordingly the strategies used to develop these skills include directed self-study of subject content out of class with the emphasis of 'in-class time' being placed on learning how to use this new knowledge.

Team-Based Learning

Following an introductory contextualising lecture, students are provided with directed self-study on which they undertake both an individual and a team-based summative assessment at the next timetabled session. This method promotes independent and active learning, develops team-working skills and helps students solve problems in a non-threatening and supportive environment.

Case-Method

Cases are constructed from real-life practice and portray authentic, often complex problems that require resolution through critical analysis of the situation with multiple sources of data. Students are required to thoroughly review the case, either independently or in study groups, in advance of a timetabled case-discussion led by an expert facilitator.

Practical work and simulation

Where necessary the application of theory will be reinforced with other learning strategies such as through practical work and simulation. Practical work will be carried out to illustrate or contextualise theory in the relevant stage and teaching unit. Simulation will be used as a strategy to develop competence in practical and clinical skills in a safe and non-threatening environment.

Patient Contact

Early contact with patients helps contextualise learning in a concrete manner rather than in the traditional abstract way. Accordingly students will, from year one, experience first-hand contact with patients both simulated and real, both in the classroom and in the practice setting where they will see for themselves relevant examples and illustrations alongside the presentation of conceptual information.

How will I be assessed?

The programme includes regular diagnostic, mock and final assessments with plenty of feedback opportunities. Students will receive feedback on their learning and performance throughout the modules, allowing students to modify their learning processes if required to enhance their learning further.

We offer a range of assessment methods at Bradford School of Pharmacy including but not limited to:

- Extended matching Questions/Multiple Choice Questions
- Objective written tests
- Oral assessments
- OSCE – Objective Structured Clinical Examination
- Portfolios
- Reports

What if I have difficulties?

We want you to obtain the most out of your studies and training. To help you achieve this, when you arrive, you will be allocated to a member of academic staff who will act as your personal tutor throughout the course. Your tutor will give you advice on any problems you may have - be they academic, financial or personal. If necessary, they will direct you to the appropriate specialist welfare resources of the University to ensure that serious problems can be dealt with speedily with the minimum effect on your studies.



Our MPharm Programmes



“ Pharmacy was a perfect choice for me as it allowed me to pursue my interest in science subjects from A level whilst also providing social and professional challenges. Furthermore, the MPharm at Bradford was ideal as it has the perfect balance between science and practice, with ample opportunities and support to progress in specific fields of interest. Originally I chose to study at Bradford because of recommendations, particularly about the sandwich course only offered here, and this decision, leading to a rewarding career, has definitely been one of my best. ”

Paryaneh – 5-year Sandwich MPharm

The Five-Year Sandwich Programme

Unique Sandwich Pathway

Our undergraduate MPharm course is the only one in the country to embed two separate six-month periods of pre-registration experience; this course commenced in 1970 and remains unique in pharmacy education. Work undertaken by Modernising Pharmacy Careers, a NHS working party, have identified an integrated MPharm programme as the future of pharmacy education. The five year programme has the same Curriculum 2012 content as the four year programme, but in addition it has the pre-registration training embedded into it.

The educational merit of the five-year programme is in your experience of the practice environment as you study for your degree. Your periods of professional experience allow you to apply your academic studies in practice, and thereby enhance your confidence and understanding. You will be required to apply your theoretical knowledge to real patients in real situations under the guidance of pre-registration tutors and trainers. Secondly, you will build upon transferable skills such as effective communication and teamwork, which are essential skills required by the pharmacists of today.

Our Sandwich Programme can provide you with experience in two areas of practice, normally selected from community and hospital pharmacy, thereby widening your pharmacy sector experience and enabling you to plan future career opportunities. This complies with the recommendations of the General Pharmaceutical Council that all pre-registration programmes include cross-sector training in both community and hospital pharmacy.

Distinguishing Features of the 5-year Sandwich Programme

- You can if you wish obtain experience in two different aspects of pharmaceutical practice (usually hospital and community practice), thereby broadening your experience and helping you to decide on your future career.
- Placements are arranged and supervised by the School, removing the worry about organising your own pre-registration year. We have built up strong working relations with a number of employers over the decades.
- You will normally receive a salary (currently around £16,000 - £20,700 p.a. pro rata) during each placement, which will help you financially during the academic periods on a student loan.
- The two-placement structure brings you into contact with a wide range of patients, employers and healthcare professionals, improving your knowledge, your workplace skills, your maturity and your confidence as well as your employability.
- Your placements are supported by members of academic staff known as link lecturers, who will contact you and your supervising tutor whilst on placement, to ensure that you comply with the requirements both for registration and for completion of your University degree.
- You will present yourself for the General Pharmaceutical Council's registration assessment where the performance of our students in the professional registration examination is exemplary, with a pass-rate at first attempt which is consistently above the national average.
- Since you graduate as a qualified pharmacist, prospective employers visit the School in your final stage to discuss current job opportunities and to arrange interviews. Passage from University to employment is seamless and organised.

Five-Year MPharm Sandwich Programme

	September – January	January – May
First Year	Semester 1	Semester 2
Second Year	Semester 3	Semester 4
Third Year	Semester 5	Semester 6
Fourth Year	Semester 7: Professional Training*	Semester 8
Fifth Year	Semester 9	Semester 10: Professional Training*

* subject to change

Four-Year MPharm Programme

	September – January	January – May
First Year	Semester 1	Semester 2
Second Year	Semester 3	Semester 4
Third Year	Semester 5	Semester 6
Fourth Year	Semester 7	Semester 8

Sample Collaborating Organisations

Independent Community Pharmacies

1st Pharmacy, Bradford
Aston Pharmacy, Blackburn & Accrington
Batley Pharmacy, Batley
Browgate Pharmacy, Baildon, Shipley
Church Lane Pharmacy, Leeds
Eye Pharmacy, Dewsbury
Halton Pharmacy, Leeds
Health Check Pharmacy, Bradford
Healthy Living, Bradford
Middlestown Pharmacy, Wakefield
Newport Pharmacy, Leeds
Pudsey Pharmacy, Leeds
Pharmacy D, Dewsbury
Rimingtons Pharmacy, Bradford
Rotherham Road Pharmacy, Barnsley
Shelf Pharmacy, Bradford
Stancliffe Pharmacy, Bramhope, Leeds
Steeton Pharmacy, Steeton, Keighley
Whaley Range Pharmacy, Blackburn
White Rose Pharmacy, Pontefract
Woodroyd Health Centre, Bradford

Community Pharmacies offering several places

Alliance Boots
Cohens
The Co-operative group
Living Care, Halifax and Leeds
Lloyds Pharmacy
Medicare Pharmacy, Huddersfield
Tesco
Weldricks

Hospitals

Airedale General Hospital, Keighley
Barnsley District General Hospital
Bradford Hospital Trust
Darlington Memorial Hospital
Dewsbury General Hospital
Doncaster Royal Infirmary
Friarage Hospital, Northallerton
Guy's & St Thomas' Hospital Trust, London
Harrogate General Hospital
Huddersfield Royal Infirmary
Leeds Teaching Hospitals
Northern General Hospital, Sheffield
Pinderfields General Hospital, Wakefield
Rotherham General Hospital
Royal Victoria Hospital, Blackpool
Scarborough District General Hospital
Sunderland Hospital
York District Hospital

Placements Team

Bradford School of Pharmacy has an experienced placements team, which helps you to find your professional placements, and makes sure that they offer comprehensive training in pharmacy practice. Many students return to their previous employers when they qualify as pharmacists. You will select your choice of placement from a list of collaborating organisations provided by the placements team. These range from independent community pharmacies and district hospitals to larger multinational, nationwide companies and teaching hospitals. If you wish to return home, your placement could be anywhere in Britain, although many students choose placements around Yorkshire, as they have already forged links in the area. Please note that you will need to demonstrate a degree of flexibility when choosing your placement.

You will usually visit your proposed placement for interview and to see the establishment, since it is important that you and your pharmacist tutor work well together. In some cases, your employer will arrange accommodation during your training. The General Pharmaceutical Council will be notified when you commence your training.

During each placement a member of staff from Bradford School of Pharmacy, a link lecturer, will be in contact to ensure that all is going well, visiting you if necessary. You and your pharmacist tutor must undertake an appraisal of your progress every 13 weeks, as required by the General Pharmaceutical Council for all pre-registration trainees. Successful completion of both six-month placements is required for registration as a pharmacist and for the award of your degree.





Sian

MPharm 4-year Continuous

The pharmacy course at Bradford builds on clinical and practical knowledge year on year as the programme progresses. Pharmacy practice and professional elements are introduced very early on, ensuring every stage of the course is relevant from beginning to end.

The role of the pharmacist is ever changing, and Bradford excels in tailoring the course to meet the required needs from the GPhC, who ultimately register pharmacists to practice. The learning environment is superb, it offers a fully functional clinical skills suite which holds a mock community pharmacy and hospital ward, along with extensive reference sources and dispensing facilities – all used every day for interactive workshops and assessments.

I have always found the staff very approachable and helpful. Many work as lecturers at the University, but also as practising pharmacists locally, so are always up to date with teaching information. There is strong integration between academic years giving many opportunities to meet new friends – our department society Bradford Association of Pharmacy Students (BAPS) organises socials and educational events with students from across the country to encourage the best student experience possible. If I was choosing a University to study at now, I can honestly say Bradford would be number one on my list – I definitely made the right decision.

Sandra

MPharm 4-year Continuous

I chose the University of Bradford to study Pharmacy because of its excellent reputation and the brilliant employment prospects. Many of the facilities within the School of Pharmacy are new, with a state-of-the-art Clinical Skills Suite, which helps my learning process as I can connect the theoretical with the practical. The staff in the school are extremely friendly and always willing to help. Bradford is a multicultural and lively student City. I have definitely had a great time studying here.



“The staff in the school are extremely friendly and always willing to help.”

The Graduate View

Jim Johnston, MPharm

5-year Sandwich Programme, Graduated in 2002

I chose to study Pharmacy at the University of Bradford because of the unique 5-year sandwich course. I gained invaluable experience of the real world of pharmacy in practice during the course (two 6-month placements) as well as earning a wage which supported me financially in the final years of study. Most students will gain experience of both Hospital and Community Pharmacy during these Pre-Registration placements, and leave University as a qualified Pharmacist. After gaining my MPharm degree I chose to enter community practice and worked for a number of years in various roles before returning to the University of Bradford to share my experiences with students as a lecturer. I continue to practise as a pharmacist, and I use this to inform my teaching, as do many of the staff within the School of Pharmacy. The recently refurbished facilities are second-to-none, and reflect the practice of pharmacy very closely.

I made a great number of long-lasting friendships during my time as a student at Bradford, and the small, friendly campus allows a good level of social interaction between students, independent of what course they are studying.

Chloe, MPharm

5-year Sandwich Programme, Graduated in 2010

Clinical diploma pharmacist in hospital and currently studying for a post graduate diploma in hospital pharmacy, at the University of Bradford.

I applied to Bradford to study Pharmacy because I wanted to do the sandwich course and Bradford was, and still is, the only university to offer it. The university is ideally located. It is close to the Alhambra theatre, restaurants, bars and is only a 10 minute walk from the town centre and the train station. You don't have to head very far out of Bradford to find some lovely, rural, Yorkshire villages. I enjoyed pretty much everything about my time at Bradford! You get to know so many other people and you make friends for life. There were plenty of Pharmacy social events to encourage me to make new friends.

Ramandeep, MPharm

4-year Continuous Programme, Graduated in 2011

Pre-Registration Pharmacist in hospital pharmacy.

I chose to do Pharmacy at Bradford as it has an excellent reputation amongst qualified pharmacists and gives every student an opportunity to learn and develop themselves both academically and socially. The university offers excellent teaching for both the four and five year programmes encompassed with work based learning and the staff are enthusiastic and motivated to provide all students with a high quality education and prepare them for the pre-registration year. I have thoroughly enjoyed my four years at the university

and have developed myself to become more confident and competent in the workplace setting and am indebted to the invaluable teaching of the staff at the University of Bradford. The university not only focuses upon the academic aspects of Pharmacy but also supports students pastorally and promotes social pharmacy related societies including the Bradford Association of Student Pharmacists.

Stacey, MPharm

5-year Sandwich Programme, Graduated in 2009

The best thing about studying here has been the opportunity of studying on the 5-year sandwich course, the chance to experience both sectors of pharmacy; one earlier in the course benefited me enormously. It helped me improve academically, socially and professionally.



Zaiba, MPharm

4-year Continuous Programme, Graduated in 2011

Studying pharmacy at Bradford was more enjoyable than I could ever imagine, with relevant and interesting topics extensively covered by enthusiastic and approachable lecturers.

As President of Bradford Association of Pharmacy Students (BAPS), we are the largest society in the University, boasting over 200 members. Part of my role was to work with the exec team to create and provide extra-curricular activities for students and lecturers alike.

This year, BAPS hosted a number of events including a staff vs. students game of 5-a-side football, Lazerquest night and a Thorntons Chocolate Tasting Evening just to mention a few! However, the highlight of the year is the annual Paraceta-ball, where all sandwich and continuous pharmacy students and staff join to celebrate the success of the academic year.

When recently asked how to describe my time studying pharmacy at the University of Bradford, I simply replied: 'The best years of my life!'



First of all because I was one of the first sandwich students I think it is great, I remember it being a wonderful way to become a pharmacist, gave me lots of experience and a good network upon which I have built on for the rest of my career.

In terms of the students you send me they are mature, willing to learn and of a very high standard, sometimes it is hard to tell a placement one student from a graduate student from elsewhere. As an employer I see two potential employees per year rather than just one. Taking sandwich students has helped with cross sector contacts as I have been in touch with previous placement tutors and they with me and that's only to the good.

Barbara, Hospital Pre-registration Tutor

Before I tutored my first new pre-registration student on her first placement within pharmacy, I had a few worries. How much clinical and practical knowledge would they have? On the flip side my thoughts were would they bring a new energy to my store? Would their learning develop my own tutoring and people management style?

My worries were addressed quickly to both myself and my store. My tutee was excellent in the way she took on each challenge. Her way of learning new systems and retaining information from both myself and the dispensary team, encouraged every member of staff to evaluate their own working style. Within only two weeks she became invaluable to us all, and was a breath of fresh air within the store. To such a degree that area and regional management could see the difference within my team.

On a personal level, she questioned my decisions and clinical knowledge (rightly and wrongly) allowing for numerous CPD entries for the both of us.

It being her first placement did not make as much of a difference as I expected, what she lacked in clinical knowledge and practical knowledge of medicines and pharmacy laws in practice she more than made up for in her willingness to learn it all. There was no difference to tutoring a final year student or a second placement student. Some skills and knowledge can only be gained from practical experience and that was my job as a tutor to develop.

She has now been given a Saturday job with the company and all the feedback that I receive from colleagues and friends is superb.

Lee, Community Pre-registration Tutor

Careers in Pharmacy

Pharmacy is a vocational course, and the majority of our graduates take up careers as pharmacists in community or hospital practice. The sandwich programme at Bradford is well recognised in the profession for the opportunity it gives for potential experience in two areas of practice prior to graduation. As a result, our graduates are particularly successful in securing posts in all branches of pharmacy.

The role of the pharmacist is continually evolving from supplier of medicines to healthcare adviser and pharmaceutical consultant, as the Government empowers pharmacists, through NHS policy and legislation, with managing the nation's medicines.

Community

About 60% of our graduates enter community practice as managers for companies ranging from small local businesses to large multinational organisations. Today's pharmacist is no longer solely the 'dispenser' of medicines, and community pharmacists spend a significant proportion of their time performing clinical checks, carrying out medication reviews whilst overseeing the prescribing and dispensing process. Communication skills are paramount as pharmacists must be able to consult patients on their symptoms and advise them on the correct therapy. Modern medicines are very potent, and it is vital that they are used properly, particularly as more medicines become available without prescription. The role of the community pharmacist is continually evolving with more professional services being provided in community and as the public become better informed about health issues.

Hospital

Historically about 35% of Bradford graduates enter hospital pharmacy. This is higher than the national average, and is due largely to their placement experience in hospital pharmacy. Hospital pharmacy involves a range of work in addition to dispensing. Daily ward visits to monitor and advise on medication use are complemented by attendance at consultant ward rounds, training patients to use their medicines correctly and planning their discharge medication. Pharmacists lead out-patient clinics such as anticoagulation and pre-admission clinics. Other specialist roles include working with the hospital nutrition team, medicines information, therapeutic drug monitoring services, sterile and non-sterile manufacture. Further specialist roles include the dispensing of radiopharmaceuticals or anti-cancer drugs and training and educating other health professionals in issues relating to medicines.

Primary Care

An increasing number of pharmacists are employed by doctors' practices or in primary care to provide pharmaceutical advice to a number of GPs, either on a sessional, part-time or full-time basis.

Industry

Pharmacy graduates are also in demand in the pharmaceutical industry. They may work in the research and development of new drugs, marketing, production and quality control of manufactured medicines, product registration or medical information.

Academia

Pharmacists are also needed to train, teach and coach pharmacy students at Schools of Pharmacy and during the pre-registration year. One such role is that of a teacher practitioner, which involves spending half the week in the practice of pharmacy in the community or hospital sector and the remainder of the week teaching at university. At Bradford School of Pharmacy, we are delighted with our large and strong teacher practitioner team which is made up of individuals from community pharmacy groups and from our links to the neighbouring hospitals.

There is a demand for pharmacists in the profession and it is reassuring to know that over 99% of graduates in the past five years have found immediate employment after graduation with competitive starting salaries.

A degree course in Pharmacy has a strong foundation in both chemical and biological sciences. Graduates may therefore gain employment in such fields as experimental pharmacology, applied microbiology and analytical chemistry. There are also many opportunities to undertake postgraduate studies and higher degrees by research.





“ Bradford is the only university that allows you to do a split placement in a hospital and community setting. ”

Zaynab – 5-year Sandwich MPharm

Admission

Entry Requirements

For entry onto the course, the 'normal route' is by offering three GCE Advanced-level science subjects, one of which must be Chemistry. However, if Chemistry and Biology are offered, we are happy to accept a non-science subject (excluding General Studies and Critical Thinking) as the third A level. Alternatively, we will accept two subjects at A level and a further two at AS level. In this case, Chemistry must be offered at A level and Biology and Mathematics are highly desirable at AS level, at least.

In either of these subject combinations, our normal offer to candidates is **320 points**, which is equivalent to A, B, B at A level, or A,B,b,b, grades at A level and AS level respectively. The required grade A should be in A-level Chemistry or Biology. You must also have English Language and Mathematics at GCSE (grade C or above.)

We consider applications from candidates with qualifications equivalent or superior to GCE Advanced level, and in the case of mature applicants, relevant experience may be taken into account. In each case it will be the attainment in Chemistry that will be the principal factor.

- Candidates offering other qualifications such as BTEC or Vocational A levels will be considered, but must also obtain 120 points (grade A) in GCE Advanced-level Chemistry.
- Scottish candidates normally should offer Advanced Highers in Chemistry and Biology (240 points) plus 80 points at Higher level or above.
- Irish candidates normally should have a Leaving Certificate with Chemistry and Biology at grade A and three other passes at grade B, all at the Higher level.

International or European Baccalaureate candidates or candidates with other qualifications should write for guidance to the Admissions Tutor, giving details of their subjects. Indeed, the Admissions Tutors would be pleased to discuss any candidate's individual circumstances if this would help.

Students with Disabilities

The Department has always encouraged applications from students with disabilities, whose applications are considered on the same academic grounds as are applied to all candidates. We make special provisions to provide a suitable learning environment wherever possible. When you enquire we will try to arrange an interview for you with a specialist from our Disability Service to discuss your particular requirements. You will receive information about our facilities, and on the Disabled Students' Allowance (DSA). For more information, help and advice, please contact

Disability Service
Tel: **01274 233739**
Minicom: **01274 235094**
Fax: **01274 236200**
Email: disabilities@bradford.ac.uk

Admissions Policy

We currently admit up to 175 students each year. Initial selection is made on the basis of the UCAS form. Each application is considered

on its merits as shown by GCSE performance, work experience, skills, personal interests, predicted grades and the referee's statement about you.

As part of our admissions policy we will invite you to an Applicant Visit Day (AVD) which will give you the opportunity to see the University and the city, look round the School and its facilities, and talk to current students who act as guides during your visit.

Pharmacy is a regulated profession, and so we will be assessing applicants on a variety of standards to ensure that they will have the personal commitment and necessary attitude, as well as the academic ability, to be a pharmacist. Equally, the AVD should give applicants an opportunity to decide if this University and either one of our courses will provide a suitable 'learning environment' for them to become a successful Pharmacist.

Normally our policy is to make offers only to Home/EU applicants who attend an AVD and are successful.

Good Character Declaration

Pharmacy is one of the registered healthcare professions, and carries both privileges and responsibilities. A pharmacy student must demonstrate that they are able to exercise those privileges and bear those responsibilities. This means that pharmacy students must conduct themselves professionally at all times. Therefore the General Pharmaceutical Council has issued a *Code of Conduct for Pharmacy Students*, and this applies to students from the first day of the undergraduate programme. The General Pharmaceutical Council requires that any person applying to be registered as a pharmacist satisfies the Registrar that their fitness to practise is not impaired, and that they are of good character. As a condition of enrolment on the academic programme, all students are required to sign a *Good Character Declaration* and are subject to an enhanced Criminal Records Bureau (CRB) check and undertake an Occupational Health Check.

The UCAS codes

University of Bradford	BRADF B56
MPharm 5-year Sandwich Programme	B231 MPharm5
MPharm 4-year Programme	B230 MPharm4

Please contact:

Mrs Kuljit K Thiaray
Admissions Tutor
The Bradford School of Pharmacy
University of Bradford
Bradford
West Yorkshire
BD7 1DP

Tel: 01274 236294
Fax: 01274 309742
Email: pharmacy@bradford.ac.uk

Taught Courses

The **MSc in Pharmaceutical Services and Medicines Control** is a multidisciplinary course designed for pharmacists from developing countries and is available as a one-year full-time course. This course covers the production, procurement, quality control and distribution of pharmaceuticals, as well as teaching management, communication and negotiation skills, therapeutics and clinical aspects of essential medicines and the organisation of health services, using the UK as a model.

The **MSc in Clinical Pharmacy** offers two part-time courses, which are also available at Postgraduate Certificate and Diploma level. The programme for hospital pharmacists aims to provide skills to analyse and critically appraise medication regimes in order to recommend the most appropriate action for the therapeutics management of the pharmaceutical care of the patient. The programme for community pharmacists applies a similar clinical emphasis to pharmacists working in community pharmacy. Primarily a distance learning course, the emphasis is on the collection of case studies for critical review in order to provide the most appropriate treatment for the patient.

The **Doctor of Pharmacy (DPharm)/MSc in Advanced Pharmacy Practice** programme is an exciting route for pharmacists working in any field to achieve a professional doctorate qualification by undertaking advanced study in pharmacy practice. The course is undertaken part-time whilst you continue to work in your chosen field of pharmacy practice. The aim is to develop a consultant pharmacist who is equipped with a range of research-based skills that focus on improving the delivery of pharmacy-related services. The Doctorate incorporates a pharmacy-based research project and is considered a leading qualification for consultant grade posts.

The School of Life Sciences also offers MSc taught courses in Analytical Sciences, Biomedical Sciences, Cancer Pharmacology, Drug Toxicology and Safety Pharmacology, Drug Discovery, and Pharmaceutical Technology (see our website www.bradford.ac.uk/pharmacy/our-courses/postgraduate-taught for further details).



Postgraduate Research

Bradford School of Pharmacy drive to lead in pharmacy education is matched by its unique and internationally acclaimed “molecules to the clinic” research approach, which embraces all staff of the School. This research mission addresses key areas of the ‘molecules to man’ theme and transforming molecules into tomorrow’s medicines. Bradford School of Pharmacy research expertise extends from drug design to formulation, drug delivery to clinical trials, neuroscience, natural products and clinical disorders in reproduction. There are skills to take ‘innovative research’ to leading-edge technology, and Bradford School of Pharmacy has an excellent record of turning its research into ventures which are commercially viable. This was exemplified by the sale in 2001 of Bradford School of Pharmacy’s first spin-off company, Bradford Particle Design (bpd) for \$200 million.

We have a history and expertise in the design of new medicines, in their synthesis, testing and formulation, e.g. Ondansetron (Zofran), an innovative anti-sickness medicine for cancer patients. This research informs our teaching and provides an enthusiasm that enhances the learning process.

The normal entrance requirement for registration on a research degree is a good Honours degree in pharmacy, chemistry, pharmacology, biomedical sciences, or a suitable related discipline.

Who To Contact

If you are interested in any aspect of the postgraduate work in the Bradford School of Pharmacy, please contact the following:

Postgraduate Research

Research Office, School of Life Sciences
Tel: (+44) (0) 1274 235952
Fax: (+44) (0) 1274 232225
Email: slsresearchoffice@bradford.ac.uk
Website: www.bradford.ac.uk/pharmacy/research

MSc in Pharmaceutical Services and Medicines Control
MSc in Clinical Pharmacy (Community)
MSc in Clinical Pharmacy (Hospital)
MSc in Advanced Pharmacy Practice
DPharm (Doctorate in Pharmacy)

SLS Postgraduate Admissions Administrator (Master’s courses)
Tel: (+44) (0) 1274 234706
Fax: (+44) (0) 1274 235600
Email: sls-postgradcourse-admissions@bradford.ac.uk
Website: www.bradford.ac.uk/pharmacy/our-courses/postgraduate-taught



Consistently ranked highly for graduate employment, with a history spanning the last century, the University of Bradford's values are built on firm foundations with the strong ethos of 'Making Knowledge Work™'



Strong roots

Back in 1966, when England were winning the World Cup, Bradford Institute of Technology became the University of Bradford and Harold Wilson, the long-serving British Prime Minister, became our first Chancellor. Over 40 years on and the University has moved from strength to strength.

1882: The University started out as Bradford Technical College. Bradford was the textile capital of the world, its renowned products reaching the four corners of the globe

1966: The University was granted its Royal Charter which makes it one of the 'old' universities

2005: In April 2005, Imran Khan was appointed as Chancellor of the University of Bradford succeeding Baroness Betty Lockwood on her retirement

2006: The University celebrated its 40th anniversary and the opening of a grand new front entrance to the campus; the vibrant Atrium in the Richmond Building, a magnificent student space

Developing the Campus

The University is constantly investing in the future of its students through world-class teaching and facilities. Recent improvements to the campus include:

- 'Unique', the superb fitness and lifestyle facility on the city campus
- The new build at the School of Management which melds the best of historic Victorian and modern architecture
- A purpose-built extension for the School of Health Studies with state-of-the-art new facilities

- The new £7m Student Central building housing the Students' Union and learning facilities, linking in to the library and IT facilities

- The Green student village which admitted its first-ever residents in September 2011

Leading-edge Technology and IT Facilities

Laboratories, study areas, computer clusters and other facilities are being constantly developed. Bradford really excels when it comes to IT, with one of the highest ratios of PCs to students in the country. You can have free internet access wirelessly from all the libraries, foyers and social spaces of all major buildings. You will also have access to the campus network from your bedroom in The Green student accommodation.

The J B Priestley Library at the heart of the city campus links up with the Learning Mall of the Student Central building. The Library is open 24 hours a day from Monday to Friday during term times, and until 9pm at weekends, and provides extensive collections of books and journals as well as access to a wide range of electronic information services. PCs are available throughout the building. Most library services are accessible via the internet.

Accommodation

You will be guaranteed a place at our award-winning eco-friendly new student village, The Green, during your first year. Buildings are arranged as a small village, with rooms available in apartments or townhouses. Every building meets the highest standards of sustainability, meaning it costs very little to heat and light. The Green has a

real community feel. It is set in beautiful landscaped gardens, with places to relax and socialise. For more details about what's available for our students, and for costs, visit www.bradford.ac.uk/accommodation

In subsequent years most students choose to live in privately rented accommodation. Student accommodation is cheaper, easier to find and more conveniently located in Bradford than in most other University cities. Many students live within five minutes of their lectures! Unipol Student Homes (www.unipol.org.uk/bradford) offers a free advice service to students, and is a good way of finding a good-quality, safe place to live at a reasonable cost.

Our City Campus

Most departments are on the city campus, as is the sports centre, the library, the Students' Union, Theatre, Music Centre and Art Gallery, and student accommodation. The new Student Central building houses the bar, entertainment facilities, Students' Union offices, welfare departments, Career Development Services, a print shop, and learning facilities. The Students' Union runs over 60 clubs and societies, and has a shop on campus. You can enjoy café bars around the campus, offering a range of facilities including food, hot and cold drinks, pool tables, video games, and a big screen TV. The newly refurbished 'Unique: Fitness & Lifestyle' has a 25-metre swimming pool, climbing wall, and a new gym with the very latest in fitness equipment. The Richmond Building Atrium is a popular place to relax, and adjacent to this, student support services can be found in The Hub.

City of Bradford

Friendly and familiar but with a lively urban centre, Bradford is the city that has it all. The cosmopolitan mix, booming social scene and host of thriving cultural venues create a vibrant modern atmosphere that sits perfectly alongside the imposing architecture of the nineteenth century. Bradford is set amongst some of the most beautiful countryside in England. At the same time it is one of the most affordable places to live. Bradford lies right in the middle of the country, with easy links by road, rail and air north to Scotland, west to Manchester and Liverpool, east to Leeds and York and south to London.

The University campus is situated in the heart of the city's 'west end' – with many new pubs, clubs and restaurants within a few minutes' walk from the halls of residence. Bradford can also offer a thriving cultural scene, including the National Media Museum, with its huge IMAX screen, as well as galleries, theatres and museums of art, crafts and technology. Further information of all that is on offer in Bradford can be found on the Web at www.visitbradford.com, and at www.bradford.ac.uk/bradford.

Eating Out

As every student will soon discover Bradford has earned the right to be famous for its curries. There are over 20 curry houses within five minutes' walk of the campus, where you can find a good meal for around £5. There are many other inexpensive restaurants, shops and supermarkets nearby, as well as the excellent value markets, specialist shops and chain stores in the city centre.

Sport

Local sporting clubs are always keen to welcome student members, not forgetting the University's own range of sporting teams and activities. If you enjoy watching rather than participating, there's football at Bradford City and Super League rugby with Bradford Bulls.

Spectacular Surroundings

Bradford is surrounded by some of the most spectacular and picturesque countryside anywhere in the country. The Pennines, Yorkshire Moors, Yorkshire Dales, Lake District and Derbyshire Peak District are all within easy travelling distance.

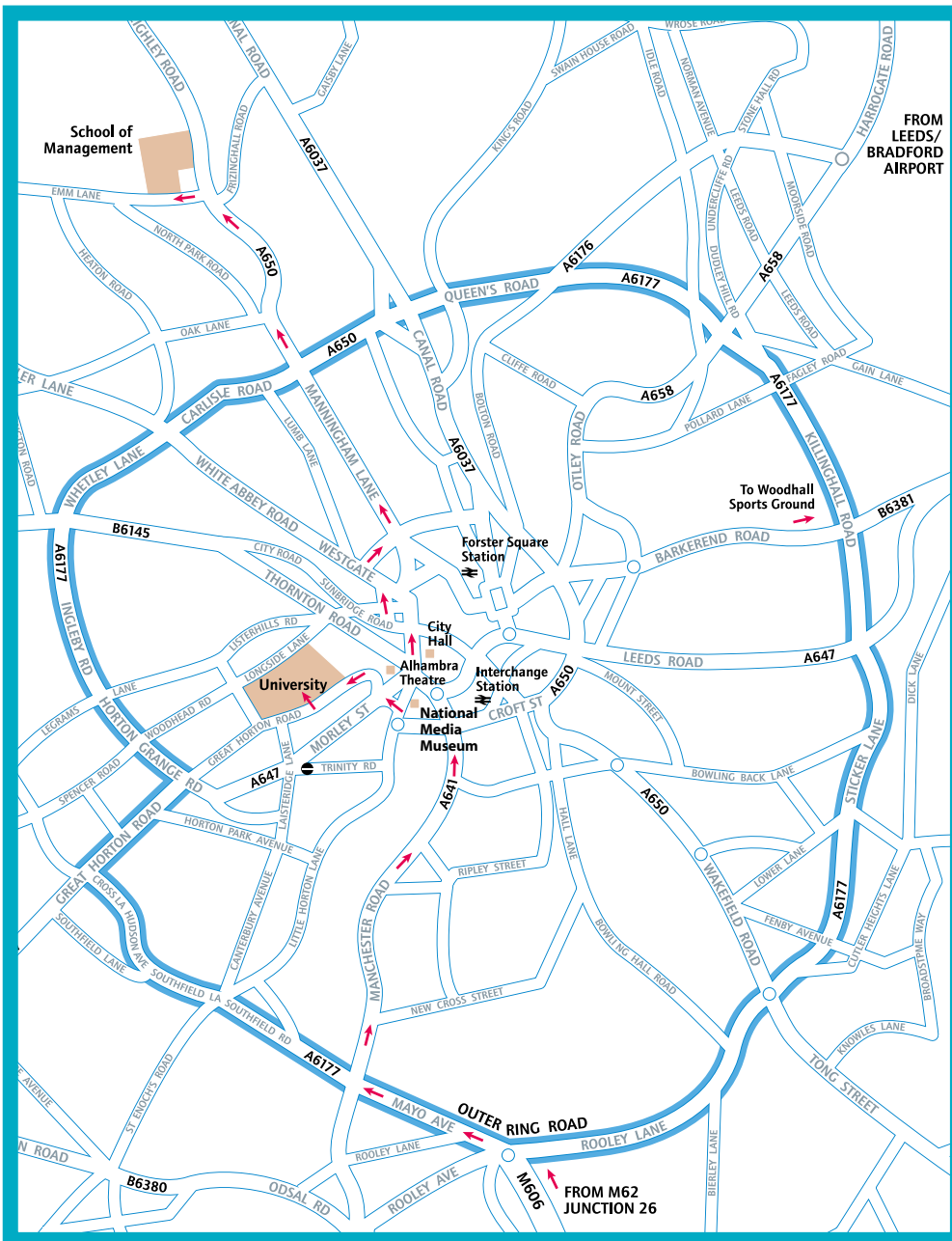
You can take advantage of the host of outdoor sporting activities available in the area or just enjoy the peace and quiet.



Yorkshire Dales and Alhambra Theatre, Bradford

How to Find us

www.bradford.ac.uk/pharmacy



How to Find Us

Road - Bradford is connected to the national motorway network via the M62 and M606.

Approximate distances are:

- London 200 miles (320 km)
- Edinburgh 200 miles (320 km)
- Birmingham 120 miles (192 km)
- Manchester 35 miles (56 km)
- York 33 miles (53 km)
- Leeds 8 miles (13 km)

Coach - services connect most parts of the country to Bradford's Travel Interchange.

Rail - Bradford Travel Interchange and Forster Square stations have extensive rail links, though many involve changing at Leeds. Approximate journey times are:

- London, King's Cross 3 hours
- Edinburgh 4 hours
- Birmingham 3 hours
- Manchester 1 hour
- York 1 hour
- Leeds 20 minutes

Air - There are direct regular air services into Leeds/Bradford International Airport, 7 miles (11 km) from the University, from various cities around the UK and Ireland as well as from Amsterdam and other European locations. You can get from the Airport to the University by bus or taxi. Many internal and international flights can also be made into Manchester Airport, 50 miles (80 km) south-west of Bradford

The contents of this publication are correct at the time of printing. The University reserves the right to alter or withdraw courses, services and facilities as described in this booklet without notice and to amend Ordinances, Regulations, fees and charges at any time. Students should enquire as to the up-to-date position when applying for their course of study. Admittance to the University is subject to the requirement that the student complies with the University's admissions procedures and observes the Charter and Statutes and the Ordinances and Regulations of the University.

More detailed maps of the University campus are available on our website at: www.bradford.ac.uk/maps

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