Clinical Sciences and Foundation in Clinical Sciences/Medicine

BSc (Hons)
3/4 years full-time
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£3m invested in modernising our biomedical, forensic and clinical facilities

ADMISSIONS TUTORS
Clinical Sciences
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Faculty of Life Sciences
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We can arrange for this material to be transcribed into an accessible format such as Braille, large print, E-text (compatible with screen-reading software) or digital audio such as CD.

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GENERAL COURSE ENQUIRIES
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2254/500/10/2015
Clinical Sciences at Bradford is an accepted and popular graduate route into UK Medical Schools with transfer opportunities for widening participation students to enter the MBChB programme at the University of Leeds.

This high-quality, multidisciplinary course has been designed to encourage students from a wide range of backgrounds to enter medical and healthcare education, widening participation for students from under-represented groups.

This unique and exciting course offers parallel entry routes to cater for varying applicant backgrounds. The course has a clinical focus and strong emphasis on anatomy, physiology and evidence-based medicine and develops excellent transferable and research skills. As Clinical Sciences graduates you will be well prepared for employment or further study, and the collaborative link with Leeds provides an opportunity for up to 40 widening participation students to enter the MBChB programme at Leeds Medical School.

With an integrated knowledge and understanding of science and health-related issues, you will be in an excellent position to pursue a variety of careers within the health sector or pharmaceutical industries. In addition to the factual knowledge you will gain throughout the course, you will also develop essential key skills that will enable you to work and communicate effectively within a team. You will develop confidence in your own abilities, with excellent time and self-management skills. Use of a Personal Development Portfolio develops reflective practice and problem-solving skills that will help you to succeed in your chosen career.

The curriculum has been designed to help you develop knowledge and understanding, attitudes and skills that will promote effective lifelong learning and support professional development - essential skills for any graduate in today’s ever-changing and developing world.

94% of our 2014 Clinical Sciences graduates (most recent data) were in employment or further study within six months of graduating*

* These statistics are derived from annually published data by the Higher Education Statistics Agency (HESA), based on those UK domiciled graduates who are available for employment or further study and whose destinations are known.
Special Features

Clinical Sciences prepared me for life. I learnt fundamental research skills, was taught by world-class lecturers who inspired my passion for healthcare sciences, and worked collaboratively with a diverse range of students.

STEPHEN TONES, CLINICAL SCIENCES GRADUATE

Links to Medicine
Year 1 is accredited by the GMC as part of the MBChB programme at Leeds, and all students on the BSc have clinical sessions and patient visits. Around one-third of Clinical Sciences graduates go on to study Medicine after completing the BSc.

Widening Participation
The course has been designed to open up opportunities into medicine and healthcare education to groups currently under-represented in higher education. We have strong links with schools and colleges and a well-established outreach programme, with dedicated outreach workers.

High-Quality Learning Experience
The course is informed by research, clinical expertise and multiprofessional teaching. The University is amongst the best in the country in terms of teaching quality for the health professions and combines expert tuition by experienced professionals with modern, well-equipped facilities. Clinical Sciences offers opportunities for you to visit healthcare and community settings with an option to undertake a one-year intercalated placement between the second and third years of the course.

Multiprofessional Teaching
A distinctive feature of the course is close collaboration between the Faculties of Life Sciences and Health Studies at Bradford, the School of Medicine at Leeds and local NHS hospital and community trusts. You will be taught by experienced staff who have expertise in the field of science, healthcare or both, with specialist clinicians forming an integral part of the teaching team. In addition to the development of your in-depth knowledge, skills and understanding of medicine and clinical sciences, the course will involve many shared learning opportunities.

Course Flexibility
Direct entry into Year 1 of the BSc is suitable for students, with the appropriate experience and qualifications, who wish to study a medically-related degree (Route 1), whereas students who do not have science A levels or the entry requirements for Year 1 will enter via the Foundation Year (Route 2). Route 2 can lead directly into the BSc in Clinical Sciences or other health-related courses at Bradford or other UK institutions.

Route 3 is our widening participation collaboration with Leeds Medical School and provides an opportunity for some students to enter the MBChB programme at Leeds Medical School. Students interested in the transfer to medicine option will enter via the Foundation in Clinical Sciences/Medicine and will satisfy widening participation criteria in addition to the standard academic and non-academic entry requirements.

Unique Combination of Science and Health Studies
This course is ideal for anyone who wants to combine an interest in science with knowledge and understanding of health and health-related issues. Option modules in Years 2 and 3 provide you with the opportunity to focus on your chosen areas of interest and to select a preferred pathway through the course.

Focus on Transferable Skills
Throughout this course, you will be encouraged to develop essential transferable skills that are held in high regard by employers and prepare you for lifelong learning. Personal and Professional Development, including a Personal Development Portfolio, and Special Studies are key themes that run throughout the course.

Excellent Personal Tutor System
Clinical Sciences at Bradford has a strong student support team. You will be assigned a personal tutor who will work closely with you throughout your course. Through your Personal Development Portfolio you will learn to identify your strengths and weaknesses and how to monitor your own progress. Your personal tutor will be there to support and guide you, helping you to direct your learning and helping you to realise your potential.

Superb Career Opportunities for Graduates
Graduates from the course can look forward to excellent career prospects. Students who complete the Clinical Sciences degree will be able to embark on a variety of graduate careers within the health and education sectors, or the pharmaceutical industry, as well as superb opportunities for graduate medicine and postgraduate research.
Course Content

The course is designed on a modular basis with each academic year divided into two semesters. The Foundation Year and Year 1 of Clinical Sciences are comprised of core modules. In Years 2 and 3, with advice from your personal and year tutors (and subject to necessary prerequisites and timetabling restrictions), you will be able to select a pathway from core and option modules according to your personal strengths and career aspirations. Modules can be broadly divided into three themes: clinical sciences, health studies and transferable skills, although due to the integrated nature of the programme some modules will cover more than one category.

Foundation Year
The Foundation Year is designed to provide the underpinning biological, chemical and numeracy skills required for medicine or Year 1 of Clinical Sciences. All modules are linked across two semesters. Consideration of health concepts from a psychosocial perspective, the roles and responsibilities of health and social care professionals, and the consolidation of key transferable skills, will enable you to make an informed decision about your career pathway.

Clinical Sciences
Chemistry introduces you to and reinforces your basic knowledge of general chemistry, extending it to cover more advanced aspects of bonding and organic chemistry. Successful completion of this module will equip you with knowledge of chemistry equivalent to GCE A level and beyond. Biology develops your understanding of cells, cellular metabolism and biological processes. Together, these modules underpin Year 1 science-based modules. Laboratory and Study Skills will enable you to perform essential laboratory techniques, develop the ability to produce scientific and case study reports, develop the numeracy skills required for students entering the healthcare professions, and introduce you to the skills required for the effective study of human anatomy.

Health Studies
Health and Society begins to develop your understanding of the roles and responsibilities of the NHS and healthcare professionals. You will consider the factors affecting health and illness and how to promote health. You will also gain an understanding of the challenges facing the NHS and healthcare provision, with a focus on current health issues and the health and social policy agenda.

Transferable Skills
In Laboratory and Study Skills you will experience problem-based learning through clinical case histories, develop your skills of logical thinking and reflective analysis, as well as developing the numeracy skills required for students entering the healthcare professions. You will also be introduced to two key themes that extend throughout the Clinical Sciences course; Personal and Professional Development and Special Studies. These modules develop your confidence and ability in effective communication and teamwork, and begin to prepare you for successful lifelong learning. You will use a Personal Development Portfolio to assist you when monitoring and reflecting on your progress. A special feature of Special Studies is that you have the opportunity to choose the topic for your in-depth study from a wide range of scientific and medical areas. You can choose to look in more detail at an area of particular interest to you, or you can use it as an opportunity to further your knowledge in an area of the course already covered.
Course Content

Year 1
Year 1 mirrors the first-year learning outcomes of the MBChB programme at Leeds.

Clinical Sciences
The specific structure and function of molecules, cells and tissues in health and disease will be covered in Integrated Medical Sciences. You will develop light microscopy skills, become familiar with basic histological techniques and the fundamentals of anatomy, physiology, pharmacology, immunology and infection which underpin normal structure and function, and understand their relevance to the diagnosis of disease and therapeutic strategies.

You will use an integrated approach to study the systems of the body. For each system, you will study the structure, function, control and common diseases of that system. You will also gain an understanding of the basic principles of assessment and treatment of disease.

You will study the heart, lungs, urinary system and kidney (Cardiovascular, Respiratory and Renal Systems) and gastrointestinal tract (Nutrition and Energy).

Health Studies
To become an effective healthcare practitioner, it is essential to develop the knowledge, skills and values that will enable you to provide holistic and ethical healthcare. You need to be aware of the factors affecting health and illness and to understand how people and societies react to, and deal with, illness. These issues are explored in Personal and Professional Development, Society and Health. In order to gain a more holistic picture of the impact of illness, you will undertake a community visit, using the information you gain to write a reflective report on the effects of chronic illness or disability on individuals or their families. Students aspiring to work in the field of health and related areas need to develop not only academically, but also professionally, developing the skills and attitudes that will enable them to treat others with respect and sensitivity and equip them for their working environment. The Medical Ethics component of the Personal and Professional Development, Society and Health module focuses on those skills and attitudes that are essential for ‘good practice’ and the factual knowledge that surrounds this development.

Transferable Skills
An ability to communicate and present information effectively, to work successfully as part of a team and to understand the requirements for effective leadership and management are essential for today’s graduate.

Special Studies and Personal and Professional Development, Society and Health in the first year concentrate on developing these skills. Visits to various NHS settings will enable you to apply the principles of effective communication and to look at the structure and functioning of groups, observing healthcare teams in action.

Skills in reflective practice and self-directed learning will be further developed through the use of a Personal Development Portfolio, and by undertaking in-depth study in a topic of your choice.
Years 2 and 3
Throughout Years 2 and 3 you will study a combination of core and option modules, selecting your own pathway through the course. You will be more reliant on self-directed learning, extending your specialist subject knowledge and critical analysis skills.

Core Modules
Clinical Sciences
Endocrinology and Neurobiology facilitates the development of your knowledge of the structure and function of the endocrine system and how it is disrupted in pathophysiological conditions. You will learn about the autonomic nervous system, how disruptions of the central nervous system can lead to disease symptoms, and how the main classes of drugs used to treat these conditions work.

In the third-year module Clinical Pharmacology, you will develop an awareness of pharmacokinetics - how drugs are used, metabolised and transported in the body and how these processes may vary between different populations.

Health Studies
Special Studies and Personal, Career and Professional Development explore the principles of epidemiology, public health medicine and health promotion, enabling you to exhibit an ethical and holistic understanding of healthcare and to provide an epidemiological perspective to health-related problems.

Many of the modules you will study during your Clinical Sciences course will consider aspects of human diversity. Special Studies and Personal, Career and Professional Development provide the opportunity to draw that knowledge together and to apply it when considering issues relating to healthcare provision, exploring how attitudes, values and beliefs can affect equality of care and treatment. Together with the knowledge gained from Economics of Healthcare Management you will understand how to make practical decisions about health service provision and make judgements about policies and their outcomes.

Transferable Skills
Building on the skills gained in Year 1, Special Studies and Personal and Professional Development in Years 2 and 3 consolidate your ability to manage and use information, to reflect on your own development and to direct your own learning through special study topics.

Personal, Career and Professional Development prepares you for making effective career decisions on leaving the University. You will learn how to evaluate your own skills, abilities, interests and values, and to relate these to a range of career options. You will develop expertise in employment application including CV preparation skills, interview techniques and presentation skills.

An important component of Special Studies in the third year is the dissertation, an independent investigation into an area of clinical sciences of your choice. You may choose from a wide range of scientific, medical or health-related areas, working under the supervision of a Special Studies supervisor.
Specialist pathways available

Course Content

Options
There are four main pathways through the course, involving option modules from Years 2 and 3. This enables you to direct your learning in line with your specific areas of interest. (Some modules may appear in more than one pathway.)

1. Mechanisms of Disease
To follow this pathway, you will choose from Genetics and Health; Pathology; Immunology, Haematology and Transfusion Science; Research Topics in Medical Cellular Pathology; Research Topics in Medical Biochemistry; Research Topics in Cancer Biology and Therapeutics; Biology of Disease. You will study the genetic and pathogenic mechanisms that underlie the cause, development, progress, manifestation and complications of diseases in humans. You will gain an increased awareness of research into disease processes and into modern methods of diagnosis and therapy. You will gain practical experience of various techniques used to study immunological, haematological and genetic disease and will be able to discuss the practical skills involved in the study of cancer and various endocrine disorders.

Through simulation-based lectures and tutorials, the module Skin, Sensation and Movement facilitates your understanding of the development, structure, function and control of the central nervous system, musculoskeletal and integumentary systems and considers common pathologies and injuries affecting these systems.

2. Mechanisms of Drug Action
This pathway focuses on the use and selection of pharmacotherapeutic agents for the management of disease. You will select from Pathology; Common Diseases and their Treatment; CNS Mechanisms, Disorders and Therapeutics to develop skills in practical aspects of pharmacology including analysis and interpretation of pharmacological data obtained from your own experimental work and from the literature. You will gain an insight into approaches for the assessment of current and potential therapeutic targets and agents in selected systems, focusing particularly on cellular mechanisms and on contemporary methodologies.

3. Clinical Sciences
The modules Clinical and Analytical Biochemistry; Genetics and Health; Immunology, Haematology and Transfusion Science; Research Topics in Medical Cellular Pathology; Research Topics in Medical Biochemistry combine to extend your understanding of the genetic and biochemical causes and consequences of disease, and some of the biochemical approaches and techniques used in investigative medicine. You will gain experience of a range of biochemical laboratory procedures typical of those used in clinical biochemistry/pathology laboratories and in the evaluation and preparation of scientific reports.

4. Healthcare
This pathway enables you to explore and evaluate contemporary issues and practices affecting healthcare. Foundations of Accounting provides you with a broad understanding of financial and management accounting concepts and techniques relevant in the business environment, whilst Economics of Healthcare Management develops an understanding of management, economic theories and principles and their application to the complex environment of healthcare services. The availability of complementary therapies has increased over the last few years, and the module Complementary and Alternative Medicine enables you to develop a critical understanding of the place complementary therapies have in healthcare practice.
**Course Structure**

**Foundation in Clinical Sciences/Medicine**

**Year 0**

<table>
<thead>
<tr>
<th><strong>Core Modules</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry for Clinical Sciences (20-credit module)</td>
</tr>
<tr>
<td>Biology for Clinical Sciences (20-credit module at Level 4)</td>
</tr>
<tr>
<td>Personal and Professional Development (Foundation) (20-credit module)</td>
</tr>
<tr>
<td>Health and Society (20-credit module)</td>
</tr>
<tr>
<td>Laboratory and Study Skills for Clinical Sciences/Medicine (20-credit module at Level 4)</td>
</tr>
<tr>
<td>Special Studies (Foundation) (20-credit module at Level 4)</td>
</tr>
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</table>

**BSc (Hons) in Clinical Sciences**

**Year 1**

<table>
<thead>
<tr>
<th><strong>Core Modules</strong></th>
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</thead>
<tbody>
<tr>
<td>Integrated Medical Sciences (30-credit module)</td>
</tr>
<tr>
<td>Cardiovascular, Respiratory and Renal Systems (20-credit module)</td>
</tr>
<tr>
<td>Special Studies 1 (20-credit module)</td>
</tr>
<tr>
<td>Personal and Professional Development, Society and Health (30-credit module)</td>
</tr>
<tr>
<td>Nutrition and Energy (20-credit module)</td>
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</table>

**Year 2**

<table>
<thead>
<tr>
<th><strong>Core Modules</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Endocrinology and Neurobiology (20-credit module)</td>
</tr>
<tr>
<td>Special Studies 2 (20-credit module)</td>
</tr>
<tr>
<td>Personal, Career and Professional Development (20-credit module)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Options</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunology, Haematology and Transfusion Science or Foundations of Accounting (20-credit module)</td>
</tr>
<tr>
<td>Skin, Sensation and Movement or Clinical and Analytical Biochemistry (20-credit module)</td>
</tr>
<tr>
<td>Genetics and Health or Pathology or Complementary and Alternative Medicine (20-credit module)</td>
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</tbody>
</table>

**Year 3**

<table>
<thead>
<tr>
<th><strong>Core Modules</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Pharmacology (20-credit module)</td>
</tr>
<tr>
<td>Special Studies and Personal and Professional Development 3 (40-credit module)</td>
</tr>
<tr>
<td>Economics of Healthcare Management (20-credit module)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Options</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Topics in Haematology and Transfusion Science (20-credit module) or Research Topics in Medical Cellular Pathology (20-credit module) or Research Topics in Medical Biochemistry (20-credit module) or CNS Mechanisms, Disorders and Therapeutics (20-credit module) or Research Topics in Cancer Biology and Therapeutics (20-credit module)</td>
</tr>
<tr>
<td>Common Diseases and their Treatment (20-credit module) or Biology of Disease (20-credit module)</td>
</tr>
</tbody>
</table>

* Modules may be subject to change

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I discovered an area which I was really passionate about and later went on to achieve a First-Class Honours degree in Anatomy.

DR KELDA SHERIDAN,
TRANSFERRED TO YEAR 2 OF MBCHB AT LEEDS MEDICAL SCHOOL
Progression to the University of Leeds Medical School

This option is only available to UK students who meet our widening participation (WP) criteria (outlined on page 12). EU/International students or students nominated to the Foundation Year by another Faculty of Life Sciences programme are not eligible to apply.

Successful completion of the Foundation Year and Year 1 of Clinical Sciences will enable students to continue with the BSc (Hons) in Clinical Sciences or, subject to the criteria outlined below, to make a direct application to Leeds. Up to 20 students from the Foundation Year will progress into Year 1 of the MBChB at Leeds and up to 20 students from Year 1 Clinical Sciences will progress into Year 2 of the MBChB at Leeds Medical School, subject to selection and having met all of the following criteria:

<table>
<thead>
<tr>
<th>Criteria for selection and transfer to MBChB from Foundation Year</th>
<th>Criteria for selection and transfer to MBChB from Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>A minimum overall mean mark for the year of 70.0% including a minimum overall mean mark of 70% in Chemistry</td>
<td>A minimum overall mean mark for the year of 60.0%</td>
</tr>
<tr>
<td>All modules must be passed at first attempt</td>
<td>All components of all modules must be passed at first attempt</td>
</tr>
<tr>
<td>Academic transcript will replace previous academic qualifications, i.e. GCSE and A-level (or equivalent) results</td>
<td></td>
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<tr>
<td>Personal tutors will provide a reference for their tutees</td>
<td></td>
</tr>
<tr>
<td>Not holding any offer for any other course (either via a transfer or through UCAS)</td>
<td></td>
</tr>
<tr>
<td>Applications screened and scored by the Admissions team at Leeds using a similar process to that implemented for the main UCAS cycle</td>
<td></td>
</tr>
<tr>
<td>Applications will be ranked and Leeds will invite shortlisted students (who score highly enough at this stage) to an interview day in July</td>
<td></td>
</tr>
<tr>
<td>All interviewed applicants are ranked on their performance at interview and up to 20 offers to transfer into Year 1 are made*</td>
<td>All interviewed applicants are ranked on their performance at interview and up to 20 offers to transfer into Year 2 are made*</td>
</tr>
<tr>
<td>Fitness to practise (Medical and DBS checks)</td>
<td></td>
</tr>
<tr>
<td>ALL students intending to apply to transfer to medicine at Leeds will be required to take the BMAT at a time organised by Leeds Medical School in Semester 2 of the year of transfer application.</td>
<td></td>
</tr>
</tbody>
</table>

Relationship between Clinical Sciences and the MBChB at Leeds

If a Foundation Year student applies to transfer to Year 1 of the MBChB but is unsuccessful, that student will be eligible to apply from Year 1 of Clinical Sciences to transfer into Year 2 of the MBChB subject to achieving the relevant academic criteria.

All students who are not shortlisted for an interview or are unsuccessful following an interview may continue with the BSc (Hons) Clinical Sciences.

* Leeds are not obliged to use all 20 places if insufficient numbers of students reach the interview stage, or do not perform strongly enough at interview.
About the Course

How is the course taught?
Students may enter the course from a wide diversity of educational backgrounds. Consequently, a variety of teaching and learning opportunities are used to reflect the differences in learning styles between students.

Every 10 credits within a module on the course represents 100 hours of study time, of which up to 20 hours is taken up by formal teaching, which may be lectures, laboratory classes, tutorials, small group work or self-paced learning using computer-aided learning - depending on the nature of the module. You are then expected to complete the remainder of the 100 hours by private study, completion of coursework and directed reading.

20-credit modules carry double the above weighting, i.e. 200 hours of study time, whilst 30-credit modules represent 300 hours of study time.

Formative assessments also feature throughout the course. Although they are referred to as 'assessments' they are in fact a way for you and your tutors to monitor your learning and understanding. The marks from formative assessments do not count towards your degree but they will help you to identify areas of the course you need to spend more time on.

How is the course assessed?
A variety of assessment formats are used throughout the course, and most modules use a combination of end-of-semester examinations (either short answer, multiple choice/extended matching questions or essay questions) and coursework such as written assignments, laboratory reports, and computer assignments. This is to reflect the different learning styles of students, and to ensure that learning outcomes from each module are assessed appropriately. Modules which focus on the development of key transferable skills may also use individual verbal presentations, group assignments, preparation of consumer information leaflets or reflective reports from your Personal Development Portfolio. A 7,000-word dissertation forms a substantial component of the final-year assessment.

Each module is normally assessed during the semester in which it is taught. Progression to the second and third years of the course is dependent upon successful completion of the previous year. Your module marks in the second and third year will then contribute to your final degree classification.

What if I have difficulties?
At the beginning of the course you will be allocated to a member of academic staff who acts as your personal tutor throughout the course. Your tutor will give you advice on any problems that you may have that affect your studies. If appropriate, they will direct you to the specialist welfare resources of the University to ensure that serious problems can be dealt with so that they have the minimum effect on your studies. In addition, a year tutor is assigned to each year group to assist them with module selection and to monitor progress, and offer a listening ear should you need someone to turn to for advice.

If you have problems with a particular module, the module co-ordinator will be able to help and advise you. A unique feature of this course is the link between students on Clinical Sciences and students at Leeds Medical School. The student body also has representation on committees at all levels of University governance, and our students play an active role through elected representatives on our course management committees. In particular, a student-staff liaison committee meets at least twice a semester and acts as a forum for discussion about various aspects of course delivery and planning.

Encouraging staff alongside supportive peers made this degree a very memorable and incredible experience for me. I highly recommend it.

JEEYA KHAN, 2014 GRADUATE
Admission

Admissions Procedure
We admit around 140 students each year, and there are two aspects to the application process. Initial selection for all applicants is made on the basis of the information contained in your UCAS form. Each form is screened for evidence of your academic potential, motivation and interpersonal skills plus the experiences and qualities necessary for a future healthcare professional. Applicants interested in the potential transfer to medicine at Leeds will also be asked for information relating to qualifying widening participation criteria. Applicants who do not meet the widening participation criteria (and are therefore not eligible for the transfer to Leeds Medical School) are encouraged to apply to the Clinical Sciences programme which leads to a variety of graduate careers including medicine.

If you score sufficiently at the screening stage you will be invited to a selection day and, through a series of structured questions/activities, you will be invited to reflect on your experiences. Individual offers will be made to prospective students following a successful interview. If you do not fulfil the requirements for the course applied for, it may be possible to make you an offer for a different course. The selection day also gives you the opportunity to meet some of the staff and students, look at the facilities and the campus and to visit the city of Bradford.

You are also welcome to come to Bradford before you apply. University Open Days are held around July and October and information is available via our website www.bradford.ac.uk/openday.

Applications for our course must be made through UCAS.

You should apply for entry to Clinical Sciences either via the Foundation Year or directly to the 3-year course depending upon your qualifications and experience. If you are interested in the option to transfer to medicine, entry is via the Foundation Year. Do not apply for both courses as we will automatically consider your application for the alternative course if it meets the requirements.

Please note: Closing date for applications to Clinical Sciences is 15 January (not 15 October).

Entry Requirements
Academic criteria:
In addition to fulfilling the general admissions requirements of the University of Bradford, you must satisfy the specific admissions requirements of the department for either the Foundation Year or Year I of the Clinical Sciences course. All candidates should offer a minimum of grade C in English Language, Mathematics, Biology and Chemistry or double award science at GCSE (or equivalent). For students offering IELTS in place of GCSE English Language, our minimum requirement is an overall score of 6.5 with not less than 6 in any sub-category.

EU & Overseas applicants
Should email Admissions Tutors for guidance as they will not be eligible to transfer to Leeds Medical School.

Criminal Records
Applicants are required to declare any convictions at the time of application through UCAS.

What may be considered acceptable within the BSc (Hons) Clinical Sciences degree may not necessarily be acceptable for Medicine. Students concerned about the impact of any past conviction/caution/reprimand should contact an Admissions Tutor for advice or seek advice directly from Leeds Medical School.

Feedback
We are happy to provide feedback to applicants who have been unsuccessful. Any applicant requiring feedback should write to, or email, the Admissions Tutor, and feedback will be provided by email to the email address provided in the UCAS application. We do not provide or discuss feedback by phone or to a third party.

Unfortunately, we are not in a position to provide feedback to applicants who have been made an offer for Clinical Sciences.
### Foundation Year

<table>
<thead>
<tr>
<th>Standard offer: 260 points e.g BCC at A level</th>
<th>Year 1 BSc (Hons)</th>
<th>Standard offer: 300 points e.g. BBB at A level</th>
</tr>
</thead>
<tbody>
<tr>
<td>This can be made up from a combination of GCE A levels, AS levels, BTEC Extended Diploma and Scottish Framework Qualifications</td>
<td>To include a minimum of grade B at A level in Chemistry and Biology</td>
<td>To include a minimum of grade B at A level in Chemistry and Biology</td>
</tr>
<tr>
<td>To include a minimum of two A-level subjects at grade C (we do not specify any subjects in the Foundation Year)</td>
<td>Scottish Advanced Highers to include two subjects at grade C</td>
<td>Scottish Advanced Highers – to include Chemistry grade B &amp; Biology grade B</td>
</tr>
<tr>
<td>BTEC Extended Diploma DMM</td>
<td>Irish Leaving Cert with at least 2 subjects at A2 and 3 subjects at B1 all passed at Higher Level</td>
<td>Irish Leaving Cert with Chemistry &amp; Biology at A1 and 3 other subjects at grade B1 all passed at Higher level</td>
</tr>
<tr>
<td>Scottish Advanced Highers to include two subjects at grade C</td>
<td>International Baccalaureate Minimum of 24 points with at least 2 HL subjects at grade 5</td>
<td>International Baccalaureate Minimum of 26 points with HL Biology at Grade 6 and HL Chemistry at Grade 6</td>
</tr>
<tr>
<td>Accredited Access courses – Access to Higher Education Diploma with at least 45 Level 3 credits, to include 30 credits at Merit</td>
<td>Graduates in Arts/Social Sciences disciplines should have at least a 2:i classification</td>
<td>Access to Medicine Diploma from: College of West Anglia; Sussex Downs Adult College</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 Level 3 credits at Distinction (including Biology and Chemistry) and 15 Level 3 credits at Merit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 Level 3 credits at Merit</td>
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All applicants should offer a minimum of a C in English Language, Mathematics, Biology and Chemistry or double award science at GCSE (or equivalent).

We do not consider science graduates or students already on a Science programme

We do not consider applicants who have studied at postgraduate level

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### What else do we look for and how do we measure it?

As the majority of our students intend to work in a healthcare setting, we try to ensure that students have sufficient insight into various health professions and can demonstrate, with examples from their life so far, that they have the qualities and interpersonal skills needed for a future healthcare professional. We screen the personal statement for evidence of the following:

- **Your insight** into a career in Medicine and/or healthcare and a reflection on the research you have undertaken. This would normally include relevant experience in a healthcare setting.

- **Social and cultural awareness** - as healthcare professionals interact with all members of society, we would expect potential students to have had experience of working with different groups beyond their immediate environment - either in voluntary or paid employment - enabling a greater understanding of the needs of vulnerable people and some of the barriers to healthcare they may face.

- **Responsibility** - it is important to demonstrate that you have started to develop this aspect of your character. This can be evidenced through paid employment, roles at school/college, family responsibilities, etc.

- **Teamwork** - most people have many opportunities to work as part of a team in school/college, employment, sports, etc.

- **Hobbies and achievements/Commitment** - Medicine and healthcare involve long hours and lifelong learning - and people with interests outside their career/studies are likely to be more effective practitioners/students. We are looking for students who can pursue non-academic interests over a sustained period of time and achieve the necessary academic requirements.

100% of our undergraduate students gain exposure to the world of work.
Additional eligibility for applying to transfer to Medicine at Leeds

Clinical Sciences is a collaborative programme between the University of Bradford and Leeds Medical School that allows up to 40 students a year to progress from Clinical Sciences to the MBChB at Leeds (subject to meeting the academic, non-academic and widening participation criteria).†

We have identified a set of criteria that will help influence the above, and applicants applying for Route 3 (with the option to apply to transfer to Medicine at Leeds Medical School) must be able to meet at least two of the following:

- Parents or legal guardians do not have any higher education qualifications (obtained either in the UK or abroad)
- Have a gross household income of less than £30,000 per year*
- Be or have been in receipt of a 16-19 bursary or similar grant*
- Be in receipt of free school meals in Years 10-13*
- Attended a secondary school (GCSE-level education) that in the year you took your GCSEs, the number of students achieving 5+ grade A*-C (including Maths and English) was below the national average (national average was 54% in 2014) - you can check this data with your school or on the Department for Education website: www.education.gov.uk/schools/performance/
- You are currently living in or have been in Local Authority Care*
- You live in an area which has low progression to higher education. This can be checked by using the link below and putting your postcode into the HEFCE postcode checker. Eligible applicants in this category will have a postcode in Group 1 or 2 www.hefce.ac.uk/postcode/
- The highest-earning family member of the household in which you live has an occupation that is classified in group 4 - 8 according to the Standard Occupational Classification

Please note that, as there is restricted access to some of the personal information you provide in your UCAS application, we use an Additional Information form to supplement the initial information we receive from UCAS.

None of the above applies to applicants who are applying for Route 1 (the BSc (Hons) Clinical Sciences), Route 2 (Foundation in Clinical Sciences/Medicine without the option for transfer).

The Selection Day

The selection day allows us to discuss in more depth what a candidate has gained from their experiences in relation to the personal qualities and communication skills necessary to be a successful healthcare professional, and to explore the academic potential of the candidate.

All invited applicants will participate in a structured group activity, and candidates who have applied for the widening participation route to Medicine at Leeds Medical School will also have an individual interview.

If an applicant has applied for direct entry to Year 1 of the BSc (Hons) and at interview does not perform to that standard but does meet the threshold score for a Foundation Year place, we will endeavour to make them an altered course offer to the Foundation Year if we have places available.

Students with Disabilities

The University of Bradford has always encouraged applications from students with disabilities. Applications are considered on the same academic and non-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 the Disability Service.

Students with a disability who are considering the medicine transfer option should contact an Admissions Tutor for advice.
Frequently Asked Questions

I haven't studied science subjects since completing my GCSEs – can I still apply?
You can apply for the Foundation in Clinical Sciences/Medicine without science A levels (or equivalent).

I don't have A levels – can I still apply?
We will consider a range of academic qualifications, but you must have studied beyond GCSE and your qualifications should be at a level equivalent to A-level study. Please contact Admissions Tutors for further advice.

Do you consider applications from students who are resitting their A levels?
Yes - providing the length of time to complete A levels does not exceed 3 years. However, if after resitting your A levels, your grades will only just meet our minimum entry requirements for the Foundation in Clinical Sciences/Medicine, we would be concerned about your ability to succeed on this programme. You should seek advice from Admissions Tutors before applying.

What happens if I don't get a place at Leeds Medical School?
Students who have successfully completed Year 1 of Clinical Sciences and do not transfer to the MBChB will be eligible to continue with the BSc (Hons) Clinical Sciences degree. Clinical Sciences is ideal for anyone who wants to combine an interest in sciences with knowledge and understanding of health and health-related issues.

Can I use the Foundation in Clinical Sciences/Medicine to get into other medical schools?
Clinical Sciences has a formal link with Leeds Medical School only. Other medical schools may accept the Foundation Year; however, you must seek advice directly from the individual medical schools about this.

Do you have a link with Dentistry?
No, our link is with Leeds Medical School. However, students who complete the Clinical Sciences degree do apply to study dentistry (subject to degree classification and fulfilling the admissions requirements for dentistry).

I have applied to Clinical Sciences in the past – can I reapply?
If your application was unsuccessful you cannot re-apply within the same UCAS cycle, i.e. through Extra or Clearing.

You are welcome to re-apply the following year if you have not begun a different degree course. However, you should only re-apply if you have added to your application in some way, for example you have gained more work experience or voluntary work. If your application was declined after attending an interview or selection day, please seek advice from the Admissions Tutors.

My personal statement is all about medicine – do I need to send a new one for Clinical Sciences?
No, because of our links with Leeds Medical School, a personal statement aimed solely towards medicine is fine.

I'm currently studying a degree – can I transfer to Clinical Sciences?
If you are on a science or health-related degree, we will not be able to consider an application or transfer request from you.

If you are on a non-science degree and wish to change direction, it may be possible to consider an application from you if you meet our academic and non-academic entry criteria. You should discuss your situation with one of the Admissions Tutors before applying.

Can I apply to Pharmacy, Optometry or other health-related courses?
Applicants who intend pursuing a career in Pharmacy, Optometry, Physiotherapy or related health professions must contact the relevant Department for information and advice. We cannot select students for other courses but some University of Bradford courses have the facility to nominate potential students into our Foundation Year, allowing that student to progress, subject to meeting specified academic conditions in the Foundation Year, directly into Year 1 of the stated programme without a further application.

Students intending to apply for courses outside the University (other than Medicine at Leeds) should seek advice from the other institution in question with regard to accepting the Foundation Year as an equivalent entry requirement.

Can I study Clinical Sciences as a part-time student?
At the moment, there is no part-time route through Clinical Sciences - both the Foundation in Clinical Sciences/Medicine and the BSc (Hons) Clinical Sciences are full-time programmes.

I'm not interested in studying medicine – what can Clinical Sciences offer me?
Clinical Sciences is a rigorous degree, delivered by supportive staff who are focused on helping you to achieve to your maximum potential. You will develop knowledge and understanding of science, health and health-related issues, as well as enhancing your personal transferable skills - skills that are essential for future employment. A wide range of graduate opportunities await a Clinical Sciences graduate.

Can I apply to other courses through UCAS whilst studying Clinical Sciences?
If you are in the Foundation Year, you can apply to other courses through UCAS; however, you must tell us that you are doing this. If you receive and accept an offer through UCAS whilst studying the Foundation Year, you will not be eligible to apply to Leeds Medical School through our transfer process.

If you are in Year 1 or 2 of Clinical Sciences, you should not be applying through UCAS.
Students in Year 3 of Clinical Sciences can apply through UCAS for courses that start after they have completed their degree.
The Student View

Choosing a course at the age of 18 which complemented my love for science, medicine and studying at a supportive university was difficult to find, but when I came across the Clinical Sciences course at the University of Bradford it ticked all of the boxes. Clinical Sciences prepared me for life. I learnt fundamental research skills, was taught by world-class lecturers who inspired my passion for healthcare sciences and worked collaboratively with a diverse range of students. There was a varied range of modules offered including Human Anatomy, Clinical Pharmacology and Researching Drug Effects on the Brain which all helped to expand and deepen my understanding of the human body and love for biology.

Studying on a reputable course gave rise to various role model and leadership opportunities within the University. Having been elected as Course Representative and a Student Ambassador to work at a Summer School, this gave me invaluable experience and helped develop fundamental skills such as team leadership and communication. These skills would later be a foundation for my future career.

My four years at the University of Bradford prepared me for the world of work. After graduating from Clinical Sciences, I undertook a Postgraduate Certificate in Education before becoming a Science teacher. I have since been promoted twice and I am currently an Assistant Head of Science at a school in Leeds. I strongly believe that if it wasn't for the strong pastoral support and the strong ethos of hard work that was instilled in us from day one, I would not be as successful as I am today.

From a very young age, I always had the determination to become a doctor. As a widening participation student, I managed to get a place on the foundation course. The next four years were the best of my life. Not only did Bradford develop me professionally, taking me from strength to strength, it also developed me personally. I acquired detailed knowledge of various relevant and interesting topics including anatomy, physiology, pharmacology, healthcare management and health economics. I also developed remarkable presentation and reflecting skills. Clinical Sciences teaching is world class and second to none. The support from staff is continually attentive and impressive. The knowledge and skills learnt throughout Clinical Sciences gave me such excellent prospects and amazing employability.

I now study graduate medicine at a University that is one of the top thirty in the whole of the world. However, in my eyes, Bradford and Clinical Sciences specifically will always be number one. The support from staff is continually attentive and impressive. The knowledge and skills learnt throughout Clinical Sciences gave me such excellent prospects and amazing employability.

In September 2006 I sat in a large lecture theatre at the University of Bradford - day one of Clinical Sciences. I remember a large show of hands when asked who wanted to study Medicine and felt overwhelmed. Fresh from A levels, scared but hopeful, I embarked upon what would come to be one of the most important and enjoyable years of my life. The course brought structure, challenge and the chance to explore a wide variety of study methods, but more importantly it restored my enjoyment for learning and professional confidence.

The staff and department were supportive and inspiring, challenging you to learn and develop. High standards were set and pride in work was encouraged. I discovered an area which I was really passionate about and later went on to achieve a First-Class Honours degree in Anatomy. I made friends, joined various clubs and had a fantastic social life! The end of the year arrived, amidst exams and applications to Leeds, I felt a bittersweet sadness that in getting into medical school I would be leaving a course I loved. A course which for me, was literally life changing.

I went on to graduate from Leeds Medical School in 2012 and undertook my FY1 year at St James’s University Hospital. The skills I developed at Bradford: hard work, determination, professional pride and a certain amount of perfectionism led to first-choice jobs, academic success and satisfaction – skills which I use every day.

As an FY2 I worked in paediatrics which culminated in a successful application to Core Surgical Training. My ultimate goal of becoming a surgeon is within sight, and all because I sat in that lecture theatre in 2006 at the University of Bradford.
Your Career after Clinical Sciences

Excellent student feedback and score of 5/5 for ‘employability and career planning’ in 2014. Typical comments include:

“It has made me think about options other than medicine”

“The Career Action Plan helped me explore possible career options”

“CV has given me a good basis for job applications”

“I feel as though I know myself better, opportunities apart from medicine”

“Networking”

“Highlighting strengths and weaknesses”

Your Career after Clinical Sciences

Students who successfully complete their studies through the Leeds School of Medicine will be able to follow a career in medicine. It is hoped that many of the successful graduates will develop their careers in the local region, utilising their skills, knowledge and awareness of local issues to the advantage of the local population. Clinical Sciences is also a highly relevant degree for those students wishing to pursue graduate medicine opportunities.

Opportunities for Clinical Sciences graduates will reflect your balanced portfolio of clinical sciences, health studies and professional skills. Depending on your chosen pathway through the course, you will be able to embark on a graduate career within the NHS ranging from health sector management, primary care to specialist clinical scientists.

There will also be opportunities for some graduates to pursue their careers through programmes such as the NHS Leadership Academy Graduate Management Training Scheme. This intensive two-year, salaried programme of training and development aims to provide the next generation of NHS leaders. Your personal and professional development throughout the Clinical Sciences course will provide you with the relevant competencies and attributes to compete for a place on one of these programmes.

The highly successful pharmaceutical industry also offers a wide variety of careers where you will be able to use your knowledge and skills to improve healthcare in the UK or worldwide. These include clinical trials, research and development, registration and regulatory affairs.

Clinical Sciences graduates who complete a Postgraduate Certificate in Education (PGCE) may also pursue a career in teaching.

Graduates wishing to continue with their studies may consider registering for an MSc or MPhil/PhD programme.
Bradford

On and around Campus

We’ve invested over £150 million in our bustling City Campus and Emm Lane Campus to make sure you get the most out of your time here – whether you’re studying, working, relaxing or playing.

Located just five minutes’ walk from Bradford city centre, the centrepiece of our refurbished campus is the three-storey Student Central building – the heart of student activity and home to University of Bradford Students’ Union.

Our new developments are among the most environmentally-friendly buildings in the world, and have seen us win numerous awards including the Chartered Institution of Building Services Engineers (CIBSE) Carbon Champion of Year 2012.

Around Campus

You can choose from a wide range of places to eat and drink, including the Global Food Market Atrium Restaurant, which offers vegan and halal options, and many other bars and cafés where you can catch up with your coursemates over a cappuccino or celebrate with friends on a night out. The campus also boasts its own theatre, library, art gallery and music centre.

Student Central

The Ents Mall houses four bars, a patio terrace and a 1,300-capacity nightclub. The Union Mall has open spaces for group study, student advice centres and a well-stocked shop. You’ll also find plenty of social and study spaces around the central atrium, with teaching rooms, a 130-seat lecture theatre, student services and a computer cluster.

Award-winning Facilities

Our award-winning £40 million student accommodation, The Green, opened in September 2011.

Our Fitness & Lifestyle sports centre boasts a range of top facilities including a gym, swimming pool and climbing wall, with a packed programme of classes, beauty treatments and children’s activities available at hugely competitive prices (visit www.bradford.ac.uk/unique for more details).

There’s also plenty of open green space for you to enjoy on campus, including the grass amphitheatre outside Student Central which plays host to everything from sunbathing in summer to sledging in winter.

Students studying Management or Law-related subjects study at the dedicated Emm Lane parkland campus, two miles (25 minutes’ walk) from the city centre, where beautiful historic buildings stand side by side with the latest state-of-the-art facilities. A dedicated free bus service takes students between the Emm Lane Campus and the City Campus.

Accommodation

During your first year you will be guaranteed a place at our £40m award-winning eco-friendly student village, The Green. 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.
£40m
award-winning, eco-friendly student accommodation, The Green

120+
student societies and sports clubs
Bradford is a vibrant, friendly, creative and cosmopolitan city with a population of over half a million people speaking around 70 different languages.

With a lively nightlife and a host of shops, cinemas, sporting venues and cultural attractions, it’s also one of the least expensive student cities in the UK – offering you great value for money too. Social life in Bradford thrives in the multitude of small, independent bars and restaurants dotted around the city centre which, once discovered, will become like a second home. You’ll also find an abundance of art, music and theatre on your doorstep with a wide variety of clubs and venues within a few minutes’ walk of the City Campus.

The National Media Museum is one of the most visited museum attractions outside London, while the Alhambra Theatre is a major touring venue offering top West End shows, contemporary dance and ballet. There’s also a wealth of grassroots culture to explore, from artist sound walks around historic Manningham to the flourishing poetry and local music scenes.

To support student travel around the city, a free bus service links the City Campus to the two railway stations, the bus station and the city centre.

A global city
We’re a multicultural community, hosting a diverse range of dazzling street events and flamboyant festivals such as the annual Bradford Festival, a vibrant, colourful and multicultural programme of theatre, art, music and dance from around the world. The city’s restaurants serve up a delicious menu of world cuisine including Polish, Chinese, Italian and Middle Eastern, while our famous curry houses earned Bradford the title of Curry Capital of Britain for a record-breaking fourth year in a row - 2011, 2012, 2013 and 2014.

Historically, Bradford was at the heart of the Industrial Revolution and its rich Victorian heritage is evident right across the city with an abundance of handsome architecture. More recent introductions include City Park, an award-winning six-acre landscaped space at the very heart of the city centre, featuring a 4,000 square metre mirror pool, spectacular laser light projections and over 100 fountains.

Almost three-quarters of the City of Bradford district is green open space. The beautifully landscaped Lister Park is within walking distance of the city centre, and is situated next to the University’s Faculty of Management and Law.

The surrounding countryside is equally breathtaking. The towns and villages of Saltaire, Ilkley and Haworth are all popular tourist attractions that are well worth a visit in their own right.
74% of the City of Bradford district is made up of green space.
City Campus map

MAP KEYS

CITY CAMPUS
1. Richmond Building
2. Atrium, Richmond Building
3. Richmond Building Workshop Block
4. ICT Building (Institute of Cancer Therapeutics)
5. Norcroft Building and Norcroft Centre
6. The Green (student accommodation)
7. Horton A Building
8. Horton D Building
9. Chesham B Building
10. Chesham C Building
11. Student Central and J B Priestley Building
12. Sports and Amenities and Carlton Building
13. Pemberton Building
14. Ashfield Building
15. Phoenix Building South West
16. Phoenix Building North East
17. Bright Building (recentre - Education and Sustainable Development Centre)
18. Cavendish Building (STEM Centre)
19. Forster Building (Eye Clinic)
20. Peace Garden

SYMBOLS KEY
- Main entrances
- Bus stops
- Free city bus stops
- Bus stops for the number 99 free bus to the Emm Lane Campus
- Information
- Controlled parking areas (permit holders only)
- Visitor car parking only. Visitors must display a visitor parking permit in their car, which they can obtain from Richmond Building reception.
- Main roads only shown
- Map not to scale

Sat Nav
Postcode
BD7 1AZ

HOW TO FIND US
WWW.BRADFORD.AC.UK/MEDICAL-SCIENCES
20 UG COURSES
Map and directions
How to find us

Getting here
Bradford is easy to get to, located right in the middle of the UK with excellent road and rail links and its own international airport. An extensive coach service also connects most parts of the country with Bradford’s Travel Interchange. Postcodes for our sites are BD7 1DP (Sat Nav postcode BD7 1AZ) for the City Campus and BD9 4JL for the Emm Lane Campus.

By road
Bradford is connected to the national motorway network by the M62 and M606, which we recommend you use if arriving from the south, east or west. Use the A629/A650 via Skipton and Keighley if arriving from the north west, or the A1 or A19 if arriving from the north east. The University is clearly signposted on all major routes into the city. Approximate travel distances are:

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

By rail
Bradford Interchange has extensive rail links, many of which involve changing at Leeds. There are some direct trains from London to Bradford. The free City Bus service operates between the railway stations and the City Campus. Approximate journey times are:

- London (King’s Cross): 3 hours
- Leeds: 20 minutes
- York: 1 hour
- Manchester: 1 hour
- Birmingham: 3 hours
- Edinburgh: 4 hours
- Glasgow: 4 hours

For more information and maps see www.bradford.ac.uk/maps

The contents of this publication represent the intentions of the University 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.