



For general undergraduate
enquiries please contact:

The Enquiry Centre
t: +44 (0)115 951 5559
e: undergraduate-enquiries@nottingham.ac.uk
w: www.nottingham.ac.uk

Healthcare Science Undergraduate Study

www.nottingham.ac.uk/gem/healthcarescience

Contents

- 02 Welcome
- 03 Why choose The University of Nottingham?
- 06 The University of Nottingham in Derby
- 07 Living in Derby
- 09 Student profile
- 11 Healthcare science degree courses
- 13 Teaching and research excellence
- 15 Careers
- 17 Applying for a place
- 19 Frequently asked questions
- 22 Visiting and contacting us

Front cover image:
A student tests the composition of a urine sample.



A student measures blood pressure using a sphygmomanometer.

Welcome to the School of Graduate Entry Medicine and Health

The School of Graduate Entry Medicine and Health is a school within the Faculty of Medicine and Health Sciences. We pride ourselves on being at the forefront of biomedical and clinical research, health service innovation and medical education. Based in a new building on the site of the Royal Derby Hospital, the School enjoys excellent links with the Derby Hospitals NHS Foundation Trust which consistently ranks among the best in the UK in a range of clinical and quality benchmarks.

In September 2009, we welcomed our first intake of students on the BSc Healthcare Science. Healthcare scientists are recognised for their highly specialised skills, knowledge and expertise, spanning a range of disciplines both within the NHS and with other employers. If you choose to study here, we will help train you to meet today's and tomorrow's needs of the healthcare scientist workforce, producing graduates who will enter a number of disciplines within the NHS or with other employers.

Starting university can be a daunting experience as it often involves moving to a new place, making new friends and a new way of studying. I would encourage you to contribute actively to the educational and social life of the University. We will also do our utmost to support you both academically and personally during your studies.

My colleagues and I are here to support you in every aspect of your new student life here in Derby. Good luck and I look forward to welcoming you to the School.

Professor Richard Donnelly
Head of the School of Graduate Entry Medicine and Health



Why choose The University of Nottingham?

There are lots of things to consider when applying to university and some will be more important to you than others. We're proud that thousands of students apply to us every year – below are some of the reasons they give for choosing us.

An inspiring environment..

A commitment to academic excellence drives everything we do and has earned us international recognition. It is evident in our teaching and research and our recent results speak for themselves: in the latest independent review of teaching quality carried out by the Quality Assurance Agency, Nottingham was awarded the highest possible judgement. Our scores in the most recent Research Assessment Exercise rank Nottingham seventh in the UK in terms of 'research power' and in 2010, we were runner-up for the Sunday Times University of the Year award.

...with great career prospects

Our high standards mean that a University of Nottingham degree is respected by both UK and foreign employers and the employment record of our graduates is one of the best in the country. If you want to improve your career prospects further, you can speak to experts in our Careers and Employability Service, gain recognition for your extracurricular achievements through the Nottingham Advantage Award or set up your own business with the help of our EnterpriseLab.

...not-to-be-missed opportunities

Outside of lectures, the opportunities at Nottingham are numerous and varied. All our campuses have a strong community spirit and our Students' Union offers over 250 societies and sports clubs. It's through them that you can pursue an existing interest or take up something new with like-minded people, develop valuable skills and generally make your time at university as rewarding and memorable as possible.

...access to two dynamic cities

Derby, home to the Medical School where the BSc Healthcare Science is taught, is a vibrant and compact city. For more details of its attractions, please see page 7, Living in Derby.

Just over 15 miles from Derby, Nottingham is another rich source of entertainment. Its attractions include bars, boutiques, the Capital FM Arena, shopping centres, pubs, theatres, an ice skating rink, cafes, markets, mainstream and independent cinemas, two football grounds, nightclubs and a climbing centre. Finding 'your Nottingham' is an exciting part of student life.

...and options for exploring the world

If you're hoping to broaden your horizons further while at university, we have the connections to help you experience new cultures first-hand. As well as exchange opportunities at our campuses in China and Malaysia we have developed links to more than 320 partner universities in over 40 countries.

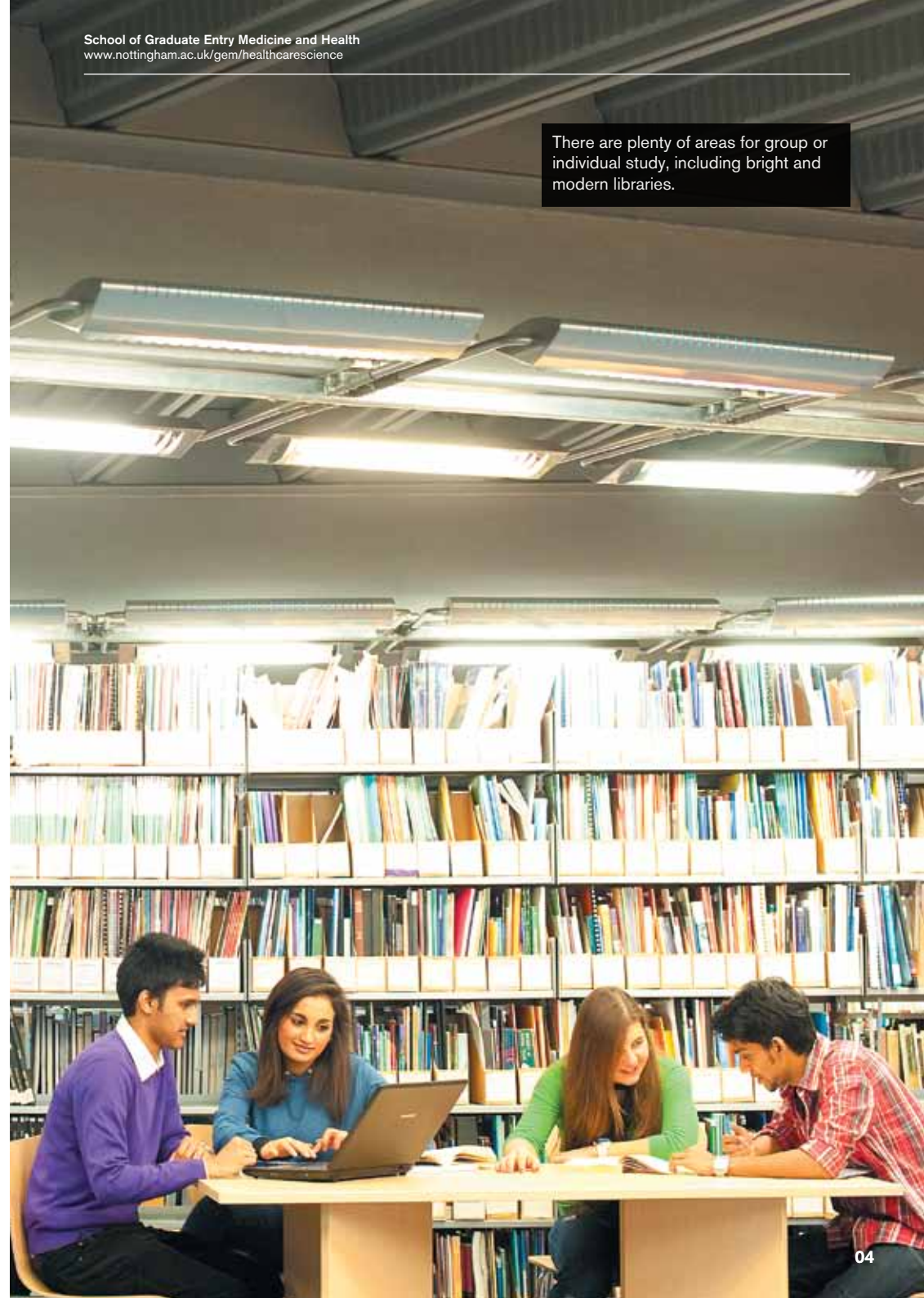
We hope this information has given you an insight into life at Nottingham and why so many students choose to study here. The next step is to book onto one of our open days, which take place in June and September. Attracting 35,000 visitors annually, these events are an opportunity to explore our campuses, chat to staff and current students and most importantly, get a feel for whether you will be happy here. To book your place, please see www.nottingham.ac.uk/opendays

We look forward to showing you around.

You can download our lively and informative city guide from www.nottingham.ac.uk/ugstudy/downloads

Information about city life is also available from www.nottingham.ac.uk/nottinghamlife

There are plenty of areas for group or individual study, including bright and modern libraries.



The University of Nottingham in Derby

The BSc Healthcare Science degree is taught in state-of-the-art facilities at the Medical School on the site of the Royal Derby Hospital, one of the biggest and best-equipped teaching hospitals in the UK. Our excellent relationship with the Trust in Derby means we are able to work together to provide a quality educational experience for our students.

The students who enrolled in the BSc Healthcare Science in 2009 immediately found themselves part of a staff-student learning community here in Derby with a terrific sense of shared purpose and dedication and a strongly student-centred approach to learning. A growing university presence on the site (with medical, science and nursing students) is helping to contribute to a vibrant health sciences learning precinct on the site of one of the UK's pioneering NHS foundation trusts.

The purpose-built Medical School at Derby is ideally suited to the study of healthcare science and all of the facilities (see below) required for the course are on site.

Healthcare science laboratory

This laboratory was built to high specification and opened in 2009. All the 'wet' practical work on the BSc in Healthcare Science takes place in the laboratory, which houses all the equipment that you need to make a success of your studies.

Anatomy suite

Our anatomy suite is equipped with models and pathology specimens and cadaveric material that is specially prosected to match teaching requirements. Planned developments include a new video system for visualisation of cadaveric and other material on display screens within the suite.

Clinical skills suite


Much of the practical work in physiology on the BSc in Healthcare Science takes place in an extensive clinical skills training area that spans most of the top floor of the building. This area is equipped with a hospital-style bed bay, four separate private consulting rooms and a wide range of clinical skills equipment and training devices including mannequins that mimic respiratory, cardiac and alimentary symptoms and responses.

Auditorium and seminar room

We also have a 212-seat state-of-the-art auditorium complete with all the necessary audiovisual equipment and electronic voting pads, and a 90-seat seminar room with the capacity for interactive workshop sessions.

Library facilities

Our on-site library stocks all the core texts for the course and printed copies of the most relevant journals and periodicals. The online University library portal is also available providing access to thousands of research papers and other online resources both on and off campus. Our students are also able to use the libraries on University Park.



The Medical School at Derby is a modern and bright building with state-of-the-art facilities.

Living in Derby

Derby is only 17 miles from Nottingham, and while we do encourage students to live in Derby to reduce transport costs, travel between Derby and Nottingham is simple: regular buses take just 20 minutes to travel between Derby city centre and University Park Campus in Nottingham (outside of rush hour), meaning that our students can still take part in activities on main campus.

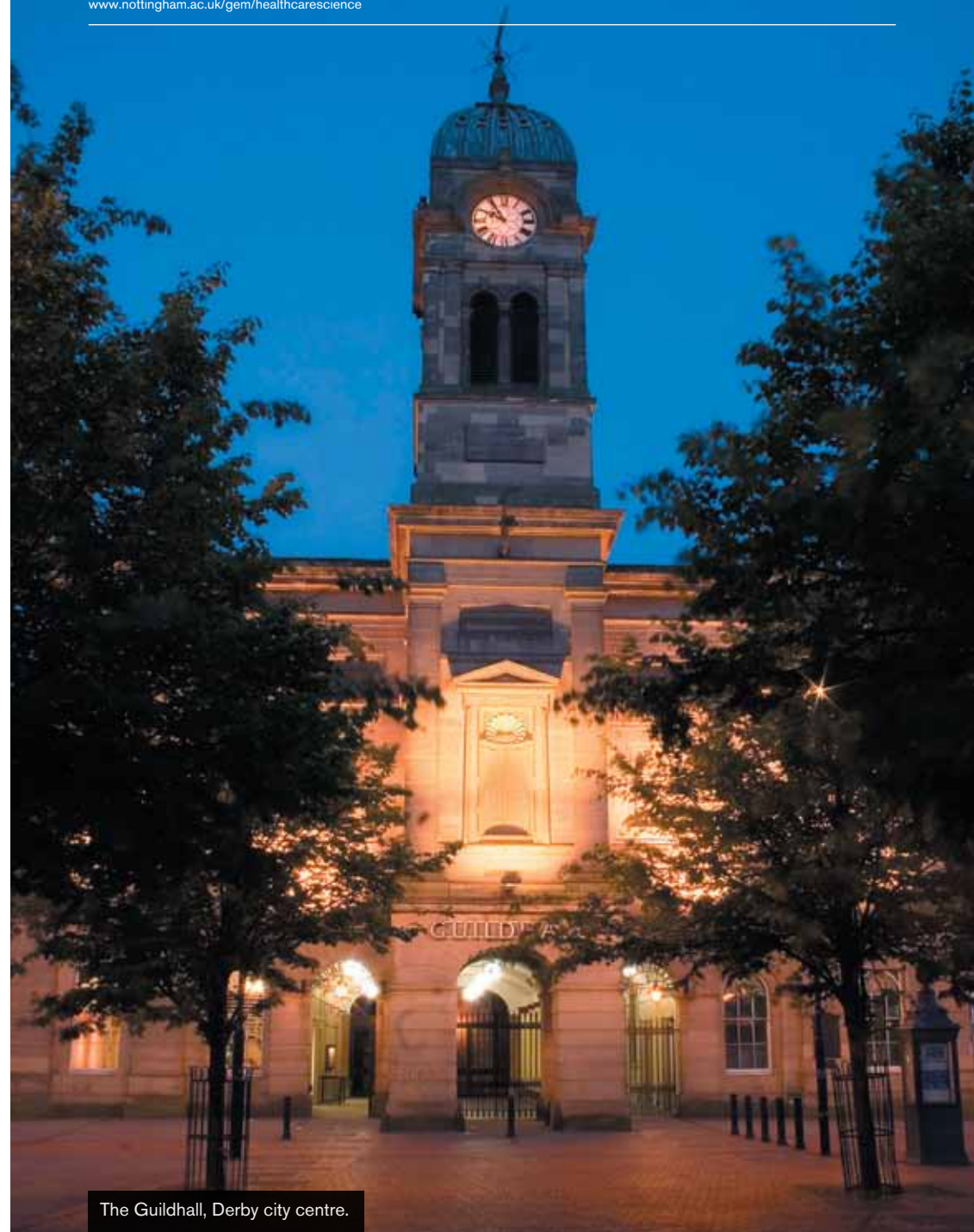
However, we also have our own student association based at the Medical School, which is funded and affiliated to the Students' Union. Acting as a 'mini Students' Union', GEMSoc organises a variety of social events throughout the year, including Freshers' Week activities and charity events, and also runs a wide selection of clubs and societies.

These range from rugby to choir, climbing to yoga, and if there isn't a club that suits your interest, you can help to start one. This is all in addition to the wide range of clubs and societies at the Students' Union in Nottingham which our students can join.

Derby itself is a vibrant and compact city. It's home to 250,000 people and is currently investing in a £2b transformation.

Derby itself is a vibrant and compact city. It's home to 250,000 people and is currently investing in a £2b transformation. This includes the Westfield Shopping Centre, which has over 190 shops and a luxury 12-screen cinema, Quad (Derby's visual arts centre showcasing film, media and other visual arts), and the £50m Derby Riverlights project, which is changing the face of the city's riverside to provide new bars, restaurants and clubs. Further planned developments include a 4,000-seat concert hall and multi-sport arena. The city is also rated as one of the safest in the region.

Thanks to Derby's central location and excellent road links, getting here by car is simple. Eighty per cent of the UK's population is within a two-hour drive of the city and over six million people can access Derby in less than an hour. Travelling to and from Derby by public transport is also made easy with East Midlands Airport and Derby Midland Railway Station almost on the doorstep.



The Guildhall, Derby city centre.

“A lot of people who are actually doing research in the field we want to go into are here – we’re learning from the best. It’s so fast-paced that you learn as you go.”

Frank Atwi / BSc Healthcare Science (qualifying year)



Find out more about Frank's experience at
www.nottingham.ac.uk/ugvideos/frankatwi

Frank is measuring zones of inhibition on antibiotic plates in the Medical School at Royal Derby Hospital.

Healthcare science degree courses

There are two entry points available on the **BSc Healthcare Science**, which will be decided by your entry qualifications.

BSc Healthcare Science with a Foundation Year

B902 (four years)

If you are interested in a career in healthcare science but do not have a science background or the traditional entry requirements for most science-based courses, this course could be the route to achieving your ambitions. This four-year degree course is designed to widen access to higher education and meet the needs of the NHS and other employers for graduate-level employees in a number of healthcare science disciplines.

The foundation year (year zero) will involve highly focused study. You will be expected to attain AS and A2 level knowledge of the aspects of subjects (human biology, chemistry and the relevant maths) that are essential to the study of healthcare science and the understanding of the function of the human body. In addition, the foundation year will include teaching in study skills and exam technique to help prepare you for the next three years of degree-level study. You will also have a personal tutor to support your pastoral needs and academic development.

You will be taught using a wide range of teaching and learning styles by a dedicated university teacher and other members of academic staff in the School in small classes. If you successfully meet the progression requirements of the foundation year you will then continue onto year one of the course, following the same curriculum as students on the three-year degree. (For details of the modules studied in years one to three, please see the modules listed for B900.)

Foundation-year (year-zero) modules

You will take all of the following modules:

- Cells and Tissues – 10 credits
- Organic Chemistry – 10 credits
- Biological Molecules – 10 credits
- Human Genetics – 10 credits
- Inorganic Chemistry – 20 credits
- Study Skills – 10 credits
- Health, Behaviour and Society – 10 credits
- Biochemical Processes – 10 credits
- Body Structure – 20 credits
- Body Processes – 10 credits

BSc Healthcare Science

B900 (three years)

Course description

The three-year BSc in Healthcare Science, which is suitable if you already have A levels in biology or chemistry, involves innovative classroom and practical sessions and you will benefit from state-of-the-art facilities at our Royal Derby Hospital site.

You will begin by taking an in-depth look at body systems and population health. In the second year you will take additional core modules in the science of body systems, social sciences and medical ethics, and a choice of laboratory and non-laboratory based modules. In the final year, you will study research methods, research design and statistics, choose special study modules and carry out a research project. You will also complete a Personal and Professional Development Portfolio.

Teaching is delivered through a range of lectures, workshops, tutorials and practical sessions. Your performance will be assessed each year through a combination of coursework (to be submitted at different points throughout the year) and formal examinations in January and May. However, there are also formative assessments throughout the year to enable you to develop self-awareness of your performance and obtain feedback on your progress. We also operate an open-door policy so that if there is something you do not fully understand, you are always welcome to discuss it with the appropriate member of academic staff.

Year-one modules

You will take all of the following modules:

- Body Structure, Body Function – 10 credits
- Supply and Demand 1 – 20 credits
- Infection and Defence – 20 credits
- Supply and Demand 2 – 20 credits
- Population Health – 10 credits
- Movement – 20 credits
- Supply and Demand 3 – 20 credits

Year-two modules

You will take all of the following modules:

- Reproduction – 20 credits
- Neuroscience – 30 credits
- Social Sciences and Ethics Applied to Healthcare – 20 credits
- NHS Structure and Values – 10 credits

You will take 40 credits worth of modules from this group:

- Cancer Biology – 20 credits
- Cardiovascular Diagnostics – 20 credits
- Diagnostic Histopathology and Imaging – 20 credits
- Respiratory Diagnostics – 20 credits

Year-three modules

You will take all of the following modules:

- Research Design, Research Methods and Statistics – 20 credits
- Personal and Professional Development – 20 credits
- Special Study Module 1 – 10 credits, several options available
- Special Study Module 2 – 10 credits, several options available
- Research Project/Audit – 60 credits

Teaching and research excellence

Undergraduate teaching in the School of Graduate Entry Medicine and Health is excellent. In 2008/09 and 2009/10, our average Student Evaluation of Teaching (SET) scores were in the top quartile within the University as a whole, indicating that the majority of students are extremely satisfied with the standard of teaching they receive.

As a school, we pride ourselves on being at the forefront of biomedical and clinical research, health service innovation and medical education. Clinical and translational research, spanning molecular mechanisms through to clinical trials, is funded by bodies such as the Department of Health, National Institutes of Health (USA), Kidney Research UK and the British Heart Foundation.

The majority of the research, in partnership with Derby Hospitals NHS Foundation Trust, involves patients and human volunteers. Current research areas include:

- musculoskeletal system in health, ageing and disease
- uterine physiology and pathophysiology
- metabolic and vascular complications of diabetes, obesity and renal function
- drug efficacy and safety in children
- rehabilitation and ageing
- gastrointestinal disease.

There are opportunities for interested students to undertake laboratory or clinical projects on key research themes.

A student examines tissue sections using a microscope.



Careers

“The BSc Healthcare Science will prepare our graduates for jobs in the NHS, industry and academic research. We also expect a significant number to undertake postgraduate study in science, nursing or medicine.”

Dr Danny McLaughlin,

Director of Undergraduate Studies and Associate Professor in Physiology,
School of Graduate Entry Medicine and Health

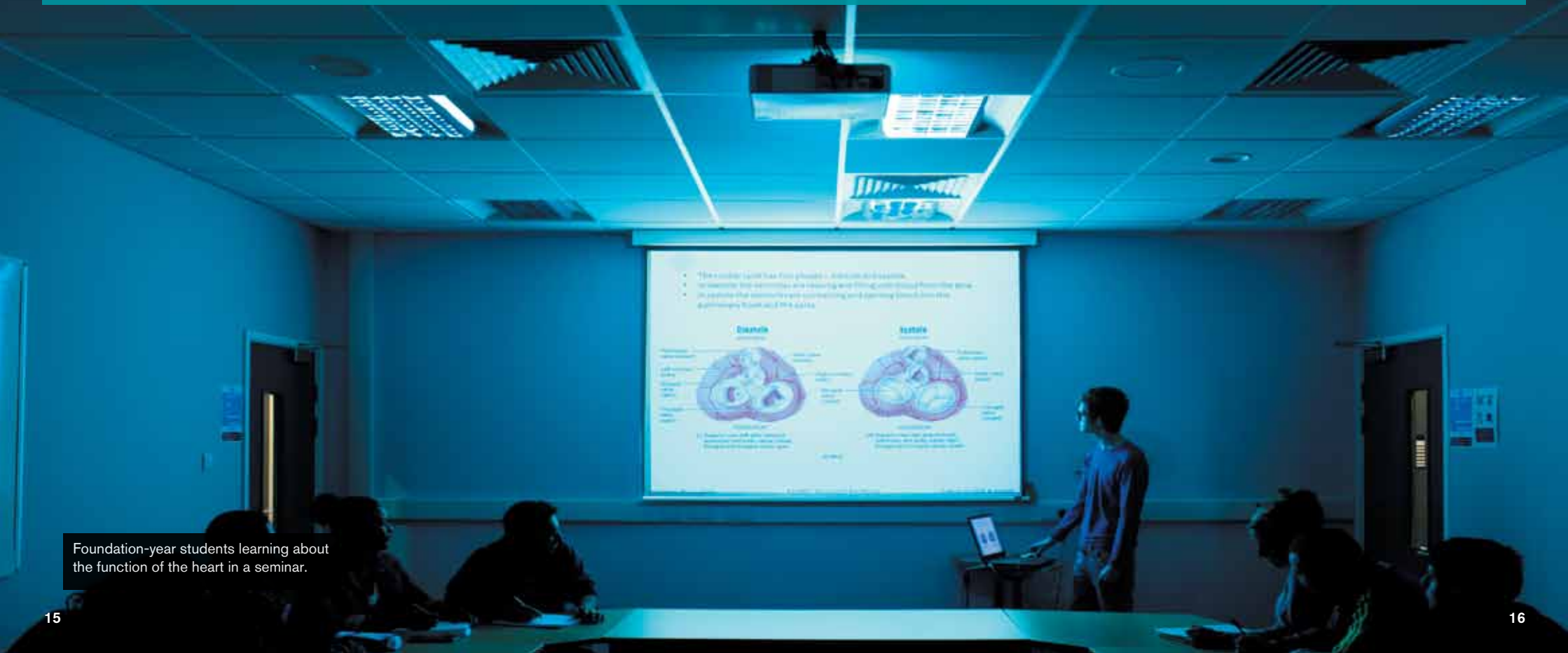
The BSc Healthcare Science is aimed at producing graduates who could enter a number of disciplines either within the NHS or with a wide range of other employers. As a graduate you will have obtained a broad range of skills valued by employers in the science and healthcare sectors.

Examples of just a few of the life and physiological healthcare science professions that our graduates can enter as trainee practitioners include:

- respiratory physiology
- cardiac physiology
- neurophysiology
- histopathology
- haematology.

You will also attain skills which will provide opportunities to work in vocations such as the pharmaceutical industry, health promotion and health policy research.

Alternatively, you might apply to graduate-entry programmes in medicine, nursing and dentistry or pursue your studies at a higher level by taking postgraduate degrees at Nottingham or other leading universities.



Foundation-year students learning about the function of the heart in a seminar.

Applying for a place

All applications for an undergraduate place to study on the BSc Healthcare Science (B900) or the BSc Healthcare Science with a Foundation Year (B902) at The University of Nottingham must be made through UCAS using their website: www.ucas.com All decisions will be communicated to applicants through UCAS. Our entry requirements are as follows:

BSc Healthcare Science (B900)

Our standard A level offer is ABB-BBB (including B in biology or chemistry). General studies and critical thinking are not accepted. We will also expect you to have GCSE maths and English at grade C or above. Candidates taking alternative qualifications (for example the International Baccalaureate) will be expected to achieve an equivalent level of attainment. A pass in a foundation course (either internal or external to the University) in a related subject may also be considered: further details are available in our prospectus and at www.nottingham.ac.uk/ugstudy

We also assess the suitability of applicants on the basis of the information provided on their UCAS form.

BSc Healthcare Science with a Foundation Year (B902)

The minimum A level requirement for students applying to the BSc Healthcare Science with a Foundation Year is CCC in any subjects except biology or chemistry. Additionally, you must have GCSE (or equivalent) qualifications in a science subject at grade B or above, together with at least four other GCSE subjects (including English and maths) at grade C or above.

Mature students who hold other qualifications will also be considered for entry to the programme. Typically, students offering some recent study (for example, an A level or completed Open University modules), or work experience relevant to healthcare science will be considered. These students will need to show an aptitude for science, which may be demonstrated by an interview with a member of academic staff involved with the course.

We also assess the suitability of applicants on the basis of their UCAS form and interviews will be arranged once academic and other information has been reviewed.

For those interested in applying to study on the BSc Healthcare Science with a Foundation Year course on a part-time basis (for which the School is currently seeking approval), please contact the School Office directly using the details on page 21.

International students

We welcome applications from international candidates through UCAS (although please note that those applying for B902 will still be subject to attending an interview held in Derby).

Qualifications are considered on a case-by-case basis but offers will be broadly equivalent to our typical A level offer. If your first language is not English you will be required to have an appropriate grade/score in an approved examination in English language before you can register on either course. Exceptions are sometimes made for students who have had their education entirely in the medium of English and where English is a well-established second language.

The following are the recognised English language qualifications (please note these may be subject to change):

- IELTS 6.5 (no less than 6.0 in any element)
- TOEFL iBT 87 (no less than 21 in listening and writing, 22 in reading and 23 in speaking)
- Pearson Test of English (62 (min 55))
- Warwick English Language Test CCC
- Warwick HE Foundation Programme 50%

“The best thing about the course is the personal touch of being in a smaller group, which allows flexibility with time spent on certain topics. There is also a great range of topics which give a great overall base for expanding knowledge needed in later years of the course.”

Samuel Saunders
BSc Healthcare Science with a Foundation Year

Frequently asked questions

Will I be guaranteed accommodation?

The University of Nottingham offers a guarantee of University accommodation for one year for all new full-time students who make Nottingham their first choice and apply for accommodation by the 1 August deadline.

As all study on the BSc Healthcare Science courses takes place at the School of Graduate Entry Medicine and Health in Derby, we strongly recommend that you select Lonsdale Hall in Derby, as commuting between Nottingham and

Derby can prove both costly and time-consuming during peak times. Situated on Lonsdale Place off Uttoxeter New Road, a short bus ride/walk from central Derby and just under one mile from the Royal Derby Hospital, Lonsdale Hall provides safe and secure self-catered accommodation for University of Nottingham students in a quiet part of Derby, with evening and night-time security patrols on site. Further information is available from the accommodation website: www.nottingham.ac.uk/accommodation

How many hours a week will I be studying?

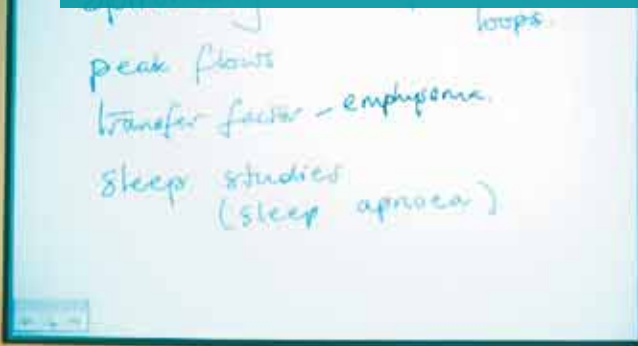
In the first year of the programme, you will have approximately 15 hours of teaching each week. However you are also expected to work independently, reading around the subject and preparing for seminars and tutorials.

Do you offer the BSc Healthcare Science as a part-time or distance-learning course?

At the time of publication (2011), the School is seeking approval for a part-time BSc Healthcare Science degree. Please check our website for updates: www.nottingham.ac.uk/gem/healthcarescience

If I complete the BSc Healthcare Science degree, do I have an automatic right to a place on the Graduate Entry Medicine (GEM) course?

There are no guaranteed places on GEM for BSc Healthcare Science students. However, from 2012 the School will set aside 10 places for University of Nottingham graduates each year (subject to the usual GEM entry criteria). Please note that these can be graduates with an honours degree in any discipline.



Qualifying-year BSc students and staff in an interactive tutorial discussing diagnostic techniques in the Supply and Demand 2 module.



Students meet in the Medical School to discuss their work before lectures.

Visiting and contacting us

Visiting us is the best way to decide if Nottingham is the right place for you and we are happy for you to explore our campuses.

Open days

The University holds four open days every year, usually on Fridays and Saturdays in June and September. The Medical School in Derby is also open on these dates and we provide transport from University Park for those wishing to visit us. These events are an excellent opportunity for you and your guests to explore the main campus and Derby Medical School and put any questions you might have to current staff and students. Open days also include talks on student life, a support services fair and tours of the city.

Campus tour days

The University runs tours of University Park Campus on some Wednesdays throughout the year. A member of academic staff will also be available on these dates at the Medical School in Derby for those wishing to visit the School, or to answer queries by telephone. For further information or to book a place on a campus tour day, please contact the Enquiry Centre on +44 (0)115 951 5559 or email undergraduate-enquiries@nottingham.ac.uk

Contact us

For further information, please contact:

School Office
The University Of Nottingham
School of Graduate Entry Medicine and Health
Royal Derby Hospital
Uttoxeter Road
Derby
DE22 3DT

t: +44 (0)1332 724 622

e: healthcarescience@nottingham.ac.uk

w: www.nottingham.ac.uk/gem/healthcarescience

For international student enquiries, please contact:

International Office

t: +44 (0)115 951 5247

f: +44 (0)115 951 5155

e: international-office@nottingham.ac.uk

w: www.nottingham.ac.uk/international

You can also follow us through our social media channels, all of which can be accessed via www.nottingham.ac.uk/connect



All information in this brochure was correct at time of print but is subject to change – for the latest information, please see www.nottingham.ac.uk

If you require this publication in an alternative format, please contact us:

t: +44 (0)115 951 4591

e: alternativeformats@nottingham.ac.uk

Printed August 2012.

Design: www.campbellrowley.com

