

UNIVERSITY OF  
**EXETER**

# MEDICINE MEDICAL SCIENCES

UNDERGRADUATE SUBJECT BROCHURE 2016





# THE UNIVERSITY OF EXETER MEDICAL SCHOOL

The University of Exeter Medical School offers two highly regarded and innovative undergraduate degree programmes: the Bachelor of Medicine, Bachelor of Surgery (BMBS) and the BSc (Hons) Medical Sciences. These degrees produce doctors and medical scientists who are able to address the health and social care challenges of the 21st century. The BMBS curriculum provides a clinical focus that is forward thinking and meets the needs of students who want to work as doctors in an increasingly integrated, internationalised health environment.

You'll benefit from access to Exeter's world-leading biomedical and health research, learn from some of the country's most innovative NHS Trusts and learn from the best healthcare systems worldwide. You will gain experience of the latest techniques and computational methodologies from genomic medicine to health technologies. There is an inspirational range of opportunities for developing special interests, or spending an additional year in focused study or work through an intercalated degree or professional training year.

These will be matched by clinical opportunities in primary and secondary care settings across the South West. We also support those students wishing to take an academic route through the academic or doctoral training programmes.

Our students are part of a wider commitment to health service training at the University of Exeter, which also includes clinical psychologists, therapists and diagnostic radiographers.

## National Health Service partnership with medicine

The National Health Service (NHS) has been closely involved in the development of medical education in the South West and is the major UK employer of healthcare professionals. Significant growth in the number of doctors and the development of medical education, both pre and post-qualification, contributes to the essential modernisation required to deliver the government's NHS plan.

The NHS in Devon and Cornwall has worked with the school to ensure that its services and facilities offer the right environment to support the way doctors are trained in line with the General Medical Council's guidance, 'Tomorrow's Doctors'. The GMC determines the knowledge, skills and behaviours that medical students learn at UK medical schools. The GMC also sets standards for teaching, learning and assessment.



The Athena SWAN Charter recognises and celebrates good employment practice for women working in STEMM in higher education and research.

The University of Exeter Medical School have been awarded an Athena SWAN Silver department award. Find out more about Athena SWAN in the University of Exeter Medical School at [www.exeter.ac.uk/medicine/about/athenaswan](http://www.exeter.ac.uk/medicine/about/athenaswan)



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[www.facebook.com/UoEMed](http://www.facebook.com/UoEMed)  
[www.twitter.com/UoE\\_Med](http://www.twitter.com/UoE_Med)

# MEDICINE

4th for overall satisfaction in the National Student Survey 2014<sup>1</sup>

8th in the UK for Medicine in *The Guardian University Guide 2015*

100% of Bachelor of Medicine, Bachelor of Surgery (BMBS) students progressing into employment or further study within six months of graduation<sup>2</sup>

Clinical experience from the first month of the programme

Graduates who are among the best prepared for safe and effective patient care

83% of research classified as world-leading or internationally excellent<sup>3</sup>

Intercalation opportunities at either Bachelors or Masters level

## Numbers

Entrants: 120 home/EU, 10 international (subject to HEFCE confirmation)

Applicants: 1,419 (September 2014 entry)

## Programme information

Email: [medicine@exeter.ac.uk](mailto:medicine@exeter.ac.uk)

Phone: +44 (0)1392 724891

[www.exeter.ac.uk/medicine](http://www.exeter.ac.uk/medicine)

## Completing your Application Form

The deadline for applications is 15 October 2015. No more than four choices should be used for clinical programmes.

This five-year Bachelor of Medicine, Bachelor of Surgery (BMBS) programme draws on the strength of our partnership with the NHS in Devon and Cornwall to provide what we believe to be the most exciting and innovative medical undergraduate degree programme available today.

Our Medicine degree develops skills for lifelong learning and the professional attitudes that you will need throughout your medical career. The programme has been designed to include the importance of a multi-professional perspective, so that you learn from, with and about other healthcare professionals. We work throughout your studies to ensure that you are properly advised on career development, ensuring that learning experiences enable you to be competitive in any medical employment market. The degree programme is carefully structured to ensure that you will graduate with the knowledge, skills and attitudes required for safe practice and entry into your first clinical job.

Our teaching ensures that you'll become a clinically skilled graduate with a strong knowledge of contemporary science, an awareness of research and excellent professional behaviour. Our use of small groups for teaching provides an intensively supported learning environment where you'll be taught to challenge, stretch, reward and empower yourself. This small group approach also means you'll be prepared for working in a multi-professional clinical team in the NHS.

Independent study is built into the timetable, enabling you to take advantage of the wide array of resources available to support your learning. You will have access to excellent facilities at the University and in the NHS.

In the early part of the programme you'll study in an environment which is well supported and that includes sessions in the Life Sciences Resource Centre at the St Luke's Campus that are led by expert tutors. You'll also study in the Clinical Skills Resource Centre at the Royal Devon and Exeter Hospital site, undertake clinical placements, have case-based group tutorials, reflective/feedback small group sessions and workshops. These all allow for group interaction, discussion and feedback. You will also have a small number of large group lectures, in which a year group is brought together for teaching sessions.

In the later years of the programme your learning occurs within the clinical environment across Devon and Cornwall with extensive opportunities for learning from patients as you move through the pathways of the patient care programme.

Our curriculum includes the whole health community, not just hospitals. This recognises the community role in chronic illness and prevention and provides the social context, giving you a wider perspective and understanding. The community placements also provide experience of the multi-professional nature of medicine and the importance of the healthcare team.

On graduation you'll be able to approach clinical problems holistically, have excellent communication skills, be empathetic and a good listener. You'll be able to work well in multi-professional teams, be able to seek and appraise the best evidence to inform your practice and be capable of meeting the health care needs of society.

<sup>1</sup> 96 per cent of Medicine students agreed they were satisfied

<sup>2</sup> respondents to the Destination of Leavers from Higher Education Survey (DLHE) of 2012/13 graduates

<sup>3</sup> Research Excellence Framework 2014 based on the percentage of research categorised as 4\* and 3\*. Medicine is returned to the Clinical Medicine Unit of Assessment



I really enjoyed my first year studying Medicine at the University of Exeter Medical School. Already, I have experienced and learnt so much – from learning how to suture and scrub up in clinical skills to having a community placement at the Wonford Hospital Walk-in Centre. The early exposure and emphasis on clinical practice was one of the reasons I chose to come here. When I first joined, I was slightly overwhelmed at being in a completely new city, but I found Exeter very welcoming and the events organised by Exeter MedSoc, such as the beach trip, helped me get to know both the University and the city. I have been pleasantly surprised at how much support is offered by the University; in addition to academic and pastoral tutors, you also get medic parents and student mentors – so whatever you need help with there is always someone there!

Yashna Nadkarni, 2nd year BMBS





# PROGRAMME STRUCTURE

The BMBS degree programme has core components which provide the essential knowledge and skills to practise as a doctor. A proportion of the curriculum is also devoted to components of your choice, which allow you to select areas of interest to study in depth.

## Years 1 and 2

LOCATION: EXETER (ST LUKE'S CAMPUS)

For your first two years you will be based at the St Luke's Campus in Exeter and fully experience university life. The curriculum in the first two years is based on the human life cycle, with emphasis on acquiring core knowledge of biomedical, psychological, sociological and population health aspects of medicine, and relating this to medical scenarios.

These two years lay the scientific foundations for study in subsequent years, ensuring that you learn within a clinical context. The programme reflects our belief that doctors need to adopt a socially accountable approach to their work and to understand the human and societal impact of disease, as well as the community-wide context of contemporary healthcare provision.

In your first year, you study human physical and psychological development from birth through to old age. In the second year, you revisit the human life cycle, this time with an emphasis on disease, pathological processes and the psychological impact of illness.

### Small group learning

The first two years of the curriculum are centred around small group learning. In groups of eight to 10, you'll work through a series of clinical cases, each lasting two weeks, which follow the human life cycle. Each tutor-led group meets three times during the fortnight to study and discuss the case and then you'll report back your individual research findings. Between meetings, you'll undertake research and independent study on all aspects of the case from the biomedical, public health, human science and professional points of view.

### Lectures

All students in your year will come together for large group teaching sessions. These lectures focus on specific subjects relevant to the cases you are studying and often involve external experts.

### The Life Sciences Resource Centre

The Life Sciences Resource Centre (LSRC), which is on the St Luke's Campus, develops your knowledge of the structure and function of the human body. Your understanding of anatomy develops through using medical imaging, including x-rays, magnetic resonance imaging and ultrasound, coupled with the study of models, living anatomy and virtual multimedia methods. Relevant clinical anatomy is taught using the knowledge and experience of clinicians.

### The Clinical Skills Resource Centre

You'll learn clinical and communication skills in a safe environment within the Clinical Skills Resource Centre (CSRC), based at the Royal Devon and Exeter Hospital, before using them in a real clinical setting. The CSRC contains state-of-the-art electronic patient simulators, mock NHS wards and emergency departments. You will learn to gather information, carry out physical examinations, conduct patient and family interviews, develop your diagnostic skills and perform a variety of practical procedures including injections, venepuncture and basic life support. You'll also develop the ability to interact with patients in a variety of situations. Learning and improving communication skills enables you to understand the needs of individual patients, physically and psychologically.

### Clinical placements

Extensive exposure to real patients in clinical settings underpins the development of your clinical skills. This experience will help you become an expert in the clinical environment. In your clinical placements during the first two years, you'll experience how healthcare is delivered in both the community and hospital. You will normally meet your first patient within the first few weeks of your first year.

During your placements, you'll also learn from patients about the breadth of diseases and health problems in a community and the effect of social and environmental factors on disease. This will help you to understand the multi-professional nature of medicine and the importance of the wider healthcare team.

### Special study units

Special study units involve working with staff from the NHS, the University and the community in a wide range of disciplines to study areas of particular interest to you. With more than 200 options, the units provide a challenging and stimulating way to develop your critical thinking, scientific and analytical skills. Some of these units may also include international placements. During the first two years, each unit takes place over a three-week period.

## Years 3 and 4

LOCATION: EXETER (ST LUKE'S CAMPUS)  
OR CORNWALL (TRURO CAMPUS)

The third and fourth years of the curriculum are delivered in locations across the South West. You'll be based at either the Wonford site at the Royal Devon and Exeter Foundation Trust in Exeter or at the Royal Cornwall Hospital in Truro. You will rotate through a series of hospital and community placements in six pathways, which provide extensive experience of a wide range of clinical settings. Your learning is centred on patients and will continue to develop your problem solving skills and increase your experience with the widest possible array of clinical scenarios.

### Integrated clinical learning

This part of the programme is divided into six 'pathways of care'. In your third year you will study pathways in acute care, ward care, and integrated ambulatory care, followed by pathways in palliative care/oncology and continuing care in your fourth year.

These pathways emphasise the importance of continuing to acquire knowledge in biomedical science, psychology, sociology and population health, while also refining and building on the clinical and communication skills you developed in your first two years.

### Integrated science learning

Your knowledge of biomedical, clinical and human science is developed during placements, through meeting patients at home, in general practice, in acute and community hospitals and through interaction with healthcare professionals in their working environment. You'll experience how the NHS works as a team to deliver patient care.

Your learning during each pathway is supported by a study guide, which develops your knowledge of common medical conditions by encouraging you to work through a series of clinical problems to build up your knowledge, clinical reasoning and analytical skills.

In addition to your clinical placement, one day each week is devoted to lectures, seminars, workshops and small group sessions which build on your previous learning and help to integrate your scientific and clinical knowledge. Teaching and learning in small groups, including structured learning sessions and clinicopathological sessions that take place each week, help you understand the key concepts and knowledge that relate to each pathway.

### Special study units

In your third and fourth years, you'll continue to study in a clinical environment and learn about healthcare teams and NHS management. In addition to the wide variety of clinical options available, you will also have the opportunity to learn more about the research process, through a longer attachment to one of our research teams.

You'll be able to develop your teaching and learning skills through another special study unit, 'The Doctor as Teacher'. The overall aim of this unit is to enable you to acquire the professional attitudes, knowledge and skills of a competent teacher and to prepare for the transition from medical student to doctor.

### IFMSA exchanges

The International Federation of Medical Students' Associations (IFMSA) is an independent, non-governmental and non-political federation of medical students' associations throughout the world. The Medical School takes part in the student exchange programme facilitated by IFMSA and this is one way in which we provide opportunities for you to advance your awareness of global health issues and education.

IFMSA exchanges offer the opportunity for four to six students in the third year to exchange with other medical students from a variety of countries worldwide, in order to participate in a four-week clinical placement. Exchanges are always bilateral, which means that when our students undertake their clinical clerkship abroad, the incoming student from that country participates in a four-week placement in Exeter or Truro.

## Intercalated degree

An intercalated degree provides the opportunity to explore another discipline at degree level, bringing added breadth and depth to your study. The opportunity to intercalate is offered to the highest performing students based on assessments during the third year. Approximately the top quartile will get an automatic offer, while the second quartile will compete for any remaining places.

Successful applicants join the final year of an existing BA or BSc degree; some postgraduate programmes are also available.

A wide range of options are available, subject to sufficient prior learning for the chosen subject, including Biosciences, History of Medicine, Human Biosciences, International Relations, Psychology, Sport and Exercise Medicine and several flexible honours combinations. A small quota may apply to intercalate externally for degrees that are not available locally – for example at the London School of Hygiene and Tropical Medicine, King's College London and University College London in subjects as diverse as business (MBA) or surgical science.

Students who have completed these intercalated degrees have enjoyed and benefited from different programmes before resuming their final year of medical study. Although intercalation means an extra year of study, it can enhance the undergraduate experience and be a real asset in your future professional life.

## Year 5

LOCATION: EXETER, TRURO,  
BARNSTAPLE OR TORBAY

In your fifth year, you will learn the job of medicine and start to develop your understanding of principles of practice in the NHS. You'll undertake a series of apprenticeship attachments in hospitals across the South West, including Exeter, Truro, Barnstaple and Torbay as well as in General Practice.

The emphasis is on the practical implementation of what you have learnt and is your final preparation for medical practice. You'll experience working as part of a healthcare team in the clinical environment. Your independent learning is supplemented by a portfolio of 'indicative presentations', which encourages you to continue integrating your scientific and clinical knowledge. These presentations expand and deepen the knowledge and skills you developed in years three and four. Receiving histories from patients and performing clinical examinations will by now be very familiar to you. You will also be developing your analytical skills in interpreting diagnostic tests and initiating management plans.

## Electives

The electives form a very important part of the curriculum, enabling you to experience medicine in an entirely new environment, both socially and culturally. Electives may involve clinical or research placements, or a combination of both. Many students take this opportunity to see the practice of medicine in another part of the world, for example, by exploring the delivery of clinical care in developing countries, through placements in mission or government hospitals. Other students arrange elective placements within the South West or other parts of the UK. There are few restrictions on what you might wish to do, provided this is clearly set out in the context of agreed learning objectives.

For further information please visit  
[www.exeter.ac.uk/medicine](http://www.exeter.ac.uk/medicine)



The Medicine course structure allows students to develop a biomedical science, anatomy and physiology foundation in Years 1 and 2 – which prepares us for clinical medicine in later years with a good understanding of how the human body works. One of the best aspects of studying Medicine here, is the amount of student support available. There is always someone easily accessible to direct your

inquiry to – whether academic or pastoral in nature. Lecturers and academic tutors are remarkably helpful and supportive of your needs. The Medical School is based at St Luke's which is quite close to the city centre and Streatham Campus, so students can take advantage of all the great societies and activities Exeter has to offer.



Praveena Deekonda, 2nd year BMBS

# ASSESSMENT AND SUPPORT

Assessment is an important part of the learning process: it demonstrates the standard you are achieving as well as that to which you are working. Your progress is assessed in relation to your knowledge and your work in clinical practice, and you will be provided with continuous feedback, enabling you to identify strengths as well as areas for improvement.

The Applied Medical Knowledge Progress Test is one of the key features of our approach to assessment. The Progress Test, which is delivered in a multiple-choice question format, is designed to assess long-term and functional knowledge rather than detailed and easily forgotten 'facts'. It is a measure of how much you are learning, not how good you are at revision, cramming or note memorisation. Following every test that you take, up to four per year, you will receive your grade and percentage score as well as the mean percentage of each test.

## Academic review

Your performance in assessment is formally reviewed each term to ensure that any problems that you may be experiencing with your learning can be identified early. We seek to support students whose performance may be a cause for concern. If you need support you will be referred to trained staff and receive a confidential report containing recommendations on how changes to individual learning styles, techniques, assessment strategies and attitude to work may improve performance.

## Academic tutor

All students are allocated an academic tutor who oversees your academic progress and personal and professional development. Your tutor is the first point of contact for academic support for the duration of the programme. You will change tutors each year.

## Wellbeing

We offer a friendly and supportive environment from your first day with us. Our Pastoral Tutor Team can provide assistance with non-academic issues. The University also provides extensive wellbeing support through a range of services including counselling services, advice units, chaplaincy, childcare facilities and student health centres. Further information can be found at [www.exeter.ac.uk/ug/wellbeing](http://www.exeter.ac.uk/ug/wellbeing)

# FOUNDATION YEARS

At the end of the undergraduate programme you will receive your BMBS degree, which is a primary medical qualification (PMQ). Holding a PMQ entitles you to provisional registration with the General Medical Council. Provisionally registered doctors can only practise in approved Foundation Year 1 posts: the law does not allow provisionally registered doctors to undertake any other type of work.

To obtain a Foundation Year 1 post you will need to apply during the final year of your undergraduate degree through the UK Foundation Programme Office selection scheme, which allocates these posts to graduates on a competitive basis. So far, all suitably qualified UK graduates have found a place on the Foundation Year 1 programme,

but this cannot be guaranteed, for instance if there were to be an excessive number of competitive applications from non-UK graduates.

Successful completion of the Foundation Year 1 programme is normally achieved within 12 months and is marked by the award of a Certificate of Experience. You will then be eligible to apply for full registration with the General Medical Council. You need full registration with a licence to practise for unsupervised medical practice in the NHS or private practice in the UK.

There is a broad spectrum of careers within clinical practice across medical, surgical and other specialities and whilst

many of these have historically been hospital-based, healthcare is moving towards a more community-centred model of delivery and consequently, doctors will be increasingly expected to deliver healthcare in a range of settings. The range of placement opportunities throughout the programme will help to develop your skills and experience of working in different healthcare settings and enable you to understand how organisations operate. This, alongside tailored career advisory sessions and events provided in partnership with the South West Peninsula Postgraduate Medical Education, will also help you to make informed career choices.

For more information visit:  
[www.peninsuladeanery.nhs.uk](http://www.peninsuladeanery.nhs.uk)



# TRURO CAMPUS

Students based at Truro will be located on the Royal Cornwall Hospital site. You will be taught in the Knowledge Spa which is a modern, multidisciplinary building which is also the home of the Medical School's European Centre for Environment and Human Health. The campus is well connected to the city centre.



# KEY INFORMATION AND ENTRY REQUIREMENTS

MEDICINE ENTRY DATA		
DEGREE PROGRAMMES	REQUIRED SUBJECTS	TYPICAL OFFER
<b>BMBS</b> <b>Medicine</b> A100 5 yrs	GCE AL Chemistry grade A and either Biology or Physics at grade A. Biology must be achieved at a minimum of grade B at AS level if not studied at AL. Four subjects must be studied at AS level, with the subject not being studied to full A level at a minimum of a grade B. General Studies is not included in any offer. IB: Chemistry and Biology at HL6	A*AA-AAA; IB: 38-36

## Interviews

Successful candidates at the initial application stage will be invited to an interview which is designed to determine whether applicants have the non-academic qualities such as the communication skills, reflectiveness and empathy required to become a successful doctor. At present the interview is conducted by a panel of medical, lay and non-medical academic or University staff. In future we intend to introduce a multiple mini-interview format. Please note that applicants are responsible for the cost of travel to the interview.

## Criminal record checks

As you may be working with vulnerable people in a variety of clinical settings throughout the degree programme, all offers are conditional upon a Criminal Conviction Self Declaration and an enhanced disclosure check via the Disclosure and Barring Service. We will review all significant reports of convictions, cautions and verbal warnings and decide on a candidate's suitability to enter the programme.

## Health assessments

All applicants invited to interview will be required to complete a health questionnaire and those accepting an offer will be screened by the Occupational Health Department. Students may be required to attend a medical examination as part of the admissions process and will be required to have tests to determine their Hepatitis B surface antigen, TB and HIV status.

## UK Clinical Aptitude Test (UKCAT)

At the time of going to print, the University of Exeter Medical School uses the UKCAT as a factor in determining which candidates are selected for interview, along with predicted or achieved grades and other information contained within an applicant's UCAS form. You are advised to visit the UKCAT website at [www.ukcat.ac.uk](http://www.ukcat.ac.uk)

We use predicted or achieved A level (or equivalent) results in conjunction with the total UKCAT score to determine the number of students called for interview. In addition, the University of Exeter uses contextual information about an applicant to assist in this process ([www.exeter.ac.uk/undergraduate/applications/policy](http://www.exeter.ac.uk/undergraduate/applications/policy)) under the terms of our Access Agreement, which is agreed with the Office for Fair Access (OFFA). This may mean that students with the potential to succeed are invited to interview with lower UKCAT scores or A level (or equivalent) predictions/achievement.

## Non-direct school leavers

The entry requirements set out in this section apply to you if it is more than two years since you completed your A levels or equivalent qualifications, if you are a graduate or if you have enrolled onto the second year of an existing degree programme at the time of application.

We use the Graduate Medical Schools Admissions Test (GAMSAT) as the entry requirement for non-direct school leavers.

GAMSAT assesses a candidate's academic aptitude for the study of medicine. Results from the test will be used alongside the other information contained on your UCAS form to select non-direct school leavers for interview. The results are valid for two years.

Information about GAMSAT is available online at [www.gamsatuk.org](http://www.gamsatuk.org). Visiting the GAMSAT website is the only way for candidates to register. Payment online is part of the registration process.

### International applicants

We welcome and encourage applications from suitably qualified international students who are either self-funded, supported by scholarships from their respective governments, or sponsored by scholarship programmes operated by the British Council and similar funding bodies.

If you are an international applicant you must meet the same admissions criteria as Home/EU students, including the UKCAT test. You must be able to fully demonstrate proficiency in the English language. All teaching is in English, so if

English is not your first language, you must have one of the following qualifications:

- IELTS band 7.5 or above with at least 7.0 in each of the Speaking and Listening sections (taken within 12 months of entry)
- GCSE/IGCSE English Language (as a first language) grade A
- IB score of 6 at the ordinary level in English Language (as a first language)

We offer a friendly and supportive environment for international students. We have a nominated Academic Tutor to coordinate your induction and academic support to ensure that your transition from school to university is a seamless one. Our International Student Advisers act as a focal point for help and advice with any matters relating to your welfare throughout your studies. They are able to assist with immigration issues including the renewal of student visas, provide advice about schooling for children and produce a termly e-newsletter packed with cultural tips, event news and useful information.

### Widening access to medicine

As part of our commitment to widening access to medicine, we undertake outreach activities with local schools in Cornwall, Devon and Somerset. Workshops introduce pupils to a range of healthcare scenarios designed to demonstrate the roles of the medic, nurse, surgeon and wider healthcare team. These sessions are available through the Outreach Team and can be requested by contacting [outreach@exeter.ac.uk](mailto:outreach@exeter.ac.uk). Please note that all requests must be from the hosting school and not individual pupils.

As well as the opportunity of talking face-to-face with Exeter Medical School staff at our Open Days, the University and the Medical School are represented at most of the UCAS Fairs in the UK. A list of the UCAS Fairs is available on our website at [www.exeter.ac.uk/undergraduate/visiting/conventions](http://www.exeter.ac.uk/undergraduate/visiting/conventions)

### Disability

We welcome applications from students with disabilities and do all we can to ensure that your participation in both the academic and social life of the University is as successful as that of other students. [www.exeter.ac.uk/medicine/education/disability](http://www.exeter.ac.uk/medicine/education/disability)



I am the Sub-Dean of the Medical School and am involved in clinical teaching with students at the Royal Devon and Exeter Hospital. When I'm not teaching I'm an ENT surgeon, with a special interest in the treatment and reconstruction of chronic middle ear disease and vertigo. I firmly believe that one of the main strengths of the Exeter BMBS degree is that students are taught on a day-to-day basis by consultants

who are the same people in the hospital attending to the needs of the local community.

It's a real privilege to have students learning alongside you in the working environment. I love the sense of wonder and fascination that crosses the face of the students when they watch a middle ear reconstruction; to see the anatomy of the ear they have learned about in the first couple of years come alive down the microscope in front of them. When they have had a chance to meet and chat with the patient first, it embeds the knowledge and learning in a way no book could come close to doing.

Mr Malcolm Hilton, Clinical Sub-Dean (Acute) and Consultant Otolaryngologist



## OTHER PROGRAMMES ALIGNED TO MEDICINE

# MEDICAL SCIENCES

6th in the UK for Biosciences in *The Guardian University Guide 2015*<sup>1</sup>

94% satisfied with teaching quality in the National Student Survey 2014<sup>2</sup>

100% of Medical Sciences students progressing into employment or further study within six months of graduation<sup>3</sup>

83% of research classified as world-leading or internationally excellent<sup>4</sup>

Innovative approaches to individual and group learning

Study pathways in Environment and Human Health, Health Research, Human Genomics, Neuroscience or Pharmacology and Therapeutics

### Programme information

Email: [medicine@exeter.ac.uk](mailto:medicine@exeter.ac.uk)

Phone: +44 (0)1392 724891

[www.exeter.ac.uk/ug/medical-sciences](http://www.exeter.ac.uk/ug/medical-sciences)

At present, many scientific discoveries never leave the laboratories in which they are made. At the same time, the needs of front-line clinicians and their patients, often go unheard by those doing research. This career-focused degree trains you to fill these gaps, and thereby enhance the lives of patients.

This programme prioritises the science that underpins medicine and clinical practice, preparing you to translate scientific discoveries and technological advances into improved healthcare. To achieve this, the first part of the programme gives you a wide-ranging insight into how the human body normally works.

We then build upon this foundation to see how things can go wrong in the body due to disease and trauma, and how normal function might be restored. We help you develop a thorough insight into human

health. For example, whilst pharmaceutical intervention may be appropriate in some conditions, other conditions might best be helped by using technology or engineering. You will be able to see this for yourself, thanks to the wide range of placements that run throughout the programme which help you develop your career outlook.

The longest of these placements takes place in the third year, when many students take the option to spend a whole year working in industry or a university or NHS laboratory. Whether you choose to do the three or four-year programme, your final year will be spent specialising in the area that interests you most, tailoring your degree to match your specific career ambitions. A large component of the final year includes carrying out independent research under close supervision by research experts (for example in cardiovascular, diabetes, genetics, neuroscience and cell and molecular biology).

<sup>1</sup> Medical Sciences is included with other related subjects in this category

<sup>2</sup> percentage of Medical Sciences students who agreed they were satisfied

<sup>3</sup> respondents to the Destination of Leavers from Higher Education (DLHE) Survey of 2012/13 graduates

<sup>4</sup> Research Excellence Framework 2014 based on the percentage of research categorised as 4\* and 3\*.

Medical Sciences is returned to the Clinical Medicine Unit of Assessment

## Programme Details

Full details of this programme, including information about all the modules, can be found in our subject brochure and at [www.exeter.ac.uk/ug/medical-sciences](http://www.exeter.ac.uk/ug/medical-sciences)

### BSc (Hons) Medical Sciences

LOCATION: EXETER (ST LUKE'S AND STREATHAM CAMPUSES)

This programme provides a firm foundation in the core biomedical and biomolecular sciences, alongside an insight into medical practice and the technologies used to diagnose disorders and treat patients. You'll develop an integrated, scientific knowledge that you can put into practice in a clinical setting and robust research skills, plus creative and inquisitive communication, leadership, critical appraisal and problem-solving skills.

All students complete the same first year regardless of whether you choose Medical Sciences or one of our five Medical Science pathways. Our programme is flexible, allowing you to change between pathways, or onto a pathway at the end of year one. In year two, modules are introduced which are designated to the pathways, and in the final year you will study advanced pathway-specific modules and complete a research project within your chosen area. Alternatively, you may wish to graduate without 'specialising' in a pathway.

**Human Genomics** – genetics is the study of genes, their action and how they are passed on through generations. Powerful technologies in genomics allow us to sequence a person's entire genetic code: the genome, giving insight into the mechanisms of normal and pathological states, as well as the identification, diagnosis and treatment of genetic disorders.

**Neuroscience** – the study of the Central (brain, the spinal cord) and the Peripheral Nervous Systems, and how they interact with the internal and external environments in normal and disease states. Study neurological and behavioural disorders and gain an insight into the latest research methodologies in these areas.

**Pharmacology and Therapeutics** – study how drugs are designed and how they work in the body. Become familiar with research and development in the new generation of 'smart' drugs and how they are being targeted for specific sub-set of disorders.

**Health Research** – key principles that underpin the successful design and implementation of clinical trials. Study the process of designing and undertaking a clinical trial including: applying for funding; building a team; and the different techniques that could be used for successful results. Learn the complex network of activities from patient recruitment to monitoring and outcome, and the management of relevant organisations.

**Environment and Human Health** – understand how health systems work to prevent or manage diseases, promote health and prolong life; how the natural and man-made environments affect our health; and how to influence local and national health policy for the benefit of communities. This pathway will be linked to our Centre for Environment and Human Health based in Cornwall.

**Year 1** In your first year you will explore the science that underpins the advancement of modern medical practice. The emphasis is on understanding the normal functioning of the human body, from enzymes through to whole biological systems. Without this core knowledge of how the body works, it would be impossible for us, as scientists, to devise the new diagnostic tests, drugs or treatments that will best benefit patients.

**Year 2** The second year focuses on the scientific basis of important diseases, beginning with some fundamental insights into the ways in which human biology goes awry in disease. This knowledge is then used to explore how cutting-edge scientific technologies can be exploited to advance disease diagnosis and treatment. You will choose from a number of optional modules.

**Year 3 Professional Training Year (PTY):** This competitive entry year provides you with an excellent opportunity to gain

invaluable experience of working as part of a cutting-edge research team. This gives you the opportunity to discover what it is like to work in a real research laboratory and will enhance your career prospects.

In previous years our students have undertaken placements at major pharmaceutical companies, such as AstraZeneca, Pfizer and Quintiles, along with other organisations including:

- Research laboratories within the NHS
- Harvard Medical School (USA)
- Johns Hopkins University (USA)
- Universities in North America, Australia and Europe
- Health Protection Agency
- BTG International
- Universities of London (King's College, Imperial), Exeter, Plymouth and Southampton

**Final Year** In your final year you have opportunities to study and undertake research to help improve current medical knowledge and practice. In addition to the core modules, you can select from a range of optional specialist advanced modules, enabling you to tailor your degree to match your own specific career ambitions.

#### MEDICAL SCIENCES ENTRY DATA

DEGREE PROGRAMMES	REQUIRED SUBJECTS	TYPICAL OFFER
<b>BSc Single Honours</b>		
<b>Medical Sciences</b> B100 3 yrs (B101 4 yrs)	At least one grade A and one grade B in GCE AL science subjects, one of which must be Biology; at least one HL6 and one HL5 in IB science subjects, one of which must be Biology	AAB-ABB; IB: 34-32
<b>Medical Sciences (Human Genomics)</b> B109 3 yrs (B119 4 yrs)		
<b>Medical Sciences (Neuroscience)</b> B106 3 yrs (B116 4 yrs)		
<b>Medical Sciences (Pharmacology and Therapeutics)</b> B105 3 yrs (B115 4 yrs)		
<b>Medical Sciences (Environment and Human Health)</b> B108 3 yrs (B118 4 yrs)		
<b>Medical Sciences (Health Research)</b> B107 3 yrs (B117 4 yrs)		

GCE AL/AS science subjects include: Biology/Human Biology<sup>▲</sup>; Chemistry; Computing; Design and Technology; Electronics; Environmental Studies; Geography; Geology; Maths/Pure Maths/Further Maths<sup>▲</sup>; Physical Education; Physics; Psychology; Science (applied); Statistics.

<sup>▲</sup>If more than one of these is taken they would only count as one 'science' but could count as two A levels towards our general requirements

**International students** can find details of English language requirements and Foundation programmes at [www.exeter.ac.uk/ug/international](http://www.exeter.ac.uk/ug/international)

**Typical Offer** For full and up-to-date information on applying to Exeter and entry requirements, including requirements for other types of qualification, please see [www.exeter.ac.uk/ug/applications](http://www.exeter.ac.uk/ug/applications)

During your study, if you will be working with vulnerable people in a variety of clinical settings you may be required to provide a Criminal Conviction Self Declaration and an enhanced disclosure check via the Disclosure and Barring Service. We will review all significant reports of convictions, cautions and verbal warnings and decide on a candidate's suitability to enter the programme.

**Transfer to Medicine** The Medical School allows up to eight students from the Medical Sciences programme to transfer to the first year of the BMBS programme after completion of their first year. This will be for students with AAB at A level or equivalent qualifications, who have achieved high average scores of First or 2:1 level. These students will also need to sit a competitive exam in order to select those to interview. No GAMSAT scores will be required. Further conditions may apply. For more up-to-date details of the admission process via this route you are advised to contact BMBS admissions team at [medicine@exeter.ac.uk](mailto:medicine@exeter.ac.uk)

# BSc SPORT AND EXERCISE MEDICINE

## BSc Sport and Exercise Medicine (also available with Professional Training Year) LOCATION: EXETER (ST LUKE'S CAMPUS)

Taught jointly by the University of Exeter Medical School and Sport and Health Sciences, this programme blends an understanding of the pathology, prevention and treatment of acute or chronic disease/injury, alongside an insight into the science underpinning the optimal preparation, performance and rehabilitation of the athlete or healing patient. The combination of medical sciences and sport and health sciences enables you to develop a holistic understanding of the human body and exercise and physical activity. The four-year version, with Professional Training Year, offers you the opportunity to undertake a relevant work placement with an employer within the health sector or another appropriate sector.

The programme responds to a growing public health agenda which seeks to prevent disease and treat targeted disorders through appropriate physical activity, lifestyle-related health behaviours and nutrition. It provides a broad range of career opportunities particularly within medical sciences, rehabilitation, sport science, health and wellbeing sectors. On graduation, you will be well positioned to support the preparation and rehabilitation of athletes, with patients recovering from injury or illness, and to undertake roles aimed at improving lifestyle through increasing levels of sport and exercise

in the population at large. You will also be well placed to pursue further postgraduate study in, for example, Sport and Exercise Medicine, Medicine, Physiotherapy, Occupational Therapy, Sports Nutrition, Nursing.

**Year 1** Foundations of Biomechanics; Sports Training Physiology; Foundations of Sports Nutrition; Foundations of Exercise and Sport Psychology; Integrated Clinical Science 1; Expanding Horizons 1; Fundamental Skills for Medical Scientists.

**Year 2** Exercise Physiology; Biomechanics and Kinesiology; Sport Psychology; Integrated Clinical Science 2; Principles of Good Clinical Practice and Research. Options from: Strength, Conditioning and Athletic Training; Sports Nutrition; Skill Acquisition; Learning and Teaching in Physical Education; Expanding Horizons 2; Foundation in Neuroscience; Introduction to Pharmacology; Medical Genetics; Introduction to Health Research.

**Year 3** Dissertation or Research Project and Personal Development Planning; Medical Imaging – Principles and Applications; Advanced Rehabilitation Medicine. Options from: Biomechanical Analysis of Human Movement; Clinical Exercise Prescription; Employability and Career Development; Factors Affecting Performance; Paediatric Exercise Physiology; Sport, Physical Activity and Health; Sport Psychology.

### SPORT AND EXERCISE MEDICINE ENTRY DATA

DEGREE PROGRAMMES	REQUIRED SUBJECTS	TYPICAL OFFER
<b>BSc Single Honours</b> <b>Sport and Exercise Medicine</b> BC03 3 yrs	GCE AL Biology grade B and another science at grade B; IB Biology HL5; and second science HL5	AAA-AAB; IB: 36-34
<b>Sport and Exercise Medicine with Professional Training Year</b> BC04 4 yrs		

**Additional Selection Criteria** Please ensure you read the information on additional selection criteria at [www.exeter.ac.uk/ug/sport](http://www.exeter.ac.uk/ug/sport)

GCE AL/AS science subjects include: Biology/Human Biology<sup>▲</sup>; Chemistry; Computing; Design and Technology; Electronics; Environmental Studies; Geography; Geology; Maths/Pure Maths/Further Maths<sup>▲</sup>; Physical Education; Physics; Psychology; Science (applied); Statistics.

<sup>▲</sup>If more than one of these is taken they would only count as one 'science' but could count as two A levels towards our general requirements

**International students** can find details of English language requirements and Foundation programmes at [www.exeter.ac.uk/ug/international](http://www.exeter.ac.uk/ug/international)

**Typical Offer** For full and up-to-date information on applying to Exeter and entry requirements, including requirements for other types of qualification, please see [www.exeter.ac.uk/ug/applications](http://www.exeter.ac.uk/ug/applications)



## ST LUKE'S CAMPUS

In the first two years, medical students are primarily based at the University's St Luke's Campus in Exeter which is close to the Royal Devon and Exeter Foundation NHS Hospital. Students studying Medical Sciences will also be taught at the Streatham Campus. The two campuses are about a 25-minute walk or a short bus ride apart and buses run frequently.

Students have studied at St Luke's for over 150 years and the campus enjoys a vibrant, atmosphere in which everyone soon gets to know each other. As you walk through the arches of the traditional North Cloisters you will see the lawns of the quadrangle surrounded by modern teaching buildings, including the Medical School building.



# UNIVERSITY LIFE

## Academic facilities

Academic facilities include a comprehensive and modern library, IT facilities and support, and modern seminar rooms and lecture theatres. The Life Sciences Resource Centre and a telematic lecture theatre are also on site. Significant investment is being made in new multi-million pound teaching facilities on the campus. At both sites you will have access to Clinical Skills Resource Centres.

## Students' Guild

Our Students' Guild is recognised as one of the UK's leading students' unions and is a dynamic, innovative and award-winning organisation. It organises many events and activities on the St Luke's Campus, which students of the Medical School take full advantage of, along with all the academic, social and sporting facilities at the Streatham Campus.

## Societies

At Exeter, thousands of students sign up to over 190 different Guild-affiliated societies. These societies cover a wide range of activities enabling our students to get fully involved with University life. Societies range from Archaeology, Jazz Orchestra and the Expedition Society to the Ski Club and Welsh Societies. If there's a club you want that we don't have, we'll help you set it up. The full list is available at [www.exeterguild.com/societies](http://www.exeterguild.com/societies)

## Sport

For many students, sport is a defining factor in their overall student experience while at Exeter. Success in sport at the University of Exeter continues each year, both in competition, where we finished 6th in the British Universities and Colleges

Sports (BUCS) rankings for 2013/14, and in recreational sport with increasing numbers of individuals and teams enjoying the facilities across our campuses.

Our teams compete for national titles in numerous competitions including cricket, golf, hockey, netball, rowing, rugby union, sailing, squash, surfing and tennis. The University has invested in the region of £12 million in the last few years to create our superb sports facilities, and they are now amongst the best in the UK and include a £2.25 million indoor cricket centre on the Streatham Campus. A further £8.1 million in developments to the Sports Park resulted in the opening of the Russell Seal Fitness Centre in September 2013. St Luke's Campus also has excellent facilities for sport including a sports hall, an air-conditioned health and fitness studio and an indoor heated swimming pool. Find out more at [www.exeter.ac.uk/sport](http://www.exeter.ac.uk/sport)

## Accommodation

Starting university can be daunting, but living in university accommodation gives you a great way to settle in and make friends quickly. All of our accommodation offers a safe and secure community in which you can start your university career.

In recent years we have made a multi-million pound investment in the building of new accommodation on all our campuses, which are designed to the highest standard and complement our existing residences.

At our campuses in Exeter we have something for everyone, from catered halls and self-catered accommodation, to self-contained family flats. Visit the Accommodation website for full details [www.exeter.ac.uk/accommodation](http://www.exeter.ac.uk/accommodation)

# ABOUT THE UNIVERSITY OF EXETER

1st in the Russell Group for student satisfaction according to the National Student Survey 2014

7th in *The Times and The Sunday Times Good University Guide 2015*

Our teaching is inspired by our research, 82% of which was ranked as world-leading or internationally excellent in the 2014 Research Excellence Framework

Six months after graduation, 93% of our first degree graduates were in employment or further study (HESA 2012/13)

## VISIT US TO FIND OUT MORE

### Open Days

You can register your interest now for our Open Days and receive priority access to book your place\*; visit [www.exeter.ac.uk/opensdays](http://www.exeter.ac.uk/opensdays)

\* Pre-registration guarantees priority access to the booking system and is not an absolute guarantee of a place at any of our Open Days. Booking is essential and is on a first-come, first-served basis.

Exeter campuses:

Friday 5 June 2015

Saturday 6 June 2015

Saturday 5 September 2015

### Campus Tours

We run campus tours at the Streatham Campus each weekday, and at St Luke's Campus on Tuesdays and Fridays during term time. You'll be shown around by a current student, who'll give you a first-hand account of what it's like to live and study at the University.

Phone: +44 (0)1392 724043

Email: [visitus@exeter.ac.uk](mailto:visitus@exeter.ac.uk)

[www.exeter.ac.uk/medicine](http://www.exeter.ac.uk/medicine)



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[www.twitter.com/uniofexeter](http://www.twitter.com/uniofexeter)

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