Where could medical physiology and therapeutics take you?

Healthcare is at the core of our society. The way we study and practice it will shape our lives for years to come.

Could you be one of the next generation of healthcare professionals and scientists working to meet the challenges of this changing world? Our medical physiology and therapeutics course is a three-year BSc honours degree that provides far-reaching training across the medical sciences. Undergraduates study in our purpose-built facilities at the University of Nottingham’s School of Medicine, at the Royal Derby Hospital.

Our students benefit from teaching and instruction from both clinical and non-clinical academics. We produce graduates capable of responding to the growing demands of healthcare. Our graduates enter a broad range of professional careers including clinically-based training programmes within the NHS, career progression within the pharmaceutical industry, or continue their professional training via masters, PhD, or graduate entry medicine programmes.

I look forward to welcoming you to join our unique degree programme in September.

Dr Wayne Carter
Admissions Tutor

Find out where a degree in medical physiology and therapeutics could take you at nottingham.ac.uk/medicine
Studying medical physiology and therapeutics at Nottingham

Ideal for those with a broad interest in the medical sciences, on this course you will experience working at the forefront of scientific research and practice.

Royal Derby Hospital Centre
You will be based in our modern, purpose-built facilities at our Royal Derby Hospital Centre in Derby. The centre is based on-site of one of the biggest hospitals in the East Midlands. Graduate entry medicine and graduate entry nursing students also study here, creating a multidisciplinary community. There is a free hopper bus service that runs between the Royal Derby Hospital Centre and main campus, University Park. This gives you the option of living in Nottingham or Derby.

Life in Derby
Derby is the UK’s most central city with excellent transport links across the country. The city centre is home to intu Derby shopping centre, which has over 160 stores, restaurants and a cinema. Derby’s nightlife is a vibrant mix of pubs, clubs, theatres, restaurants and live music, with many places holding regular student nights or offering NUS discounts, helping students get more for their money.

At a glance
- Study a broad range of subjects within the medical sciences, including anatomy, cell biology and physiology
- Graduate with skills that open up employment opportunities in a wide range of scientific and clinical fields
- Choose from optional modules in your second and third year, adapting the course to your interests

Our course

<table>
<thead>
<tr>
<th>Degree title</th>
<th>UCAS code</th>
<th>Duration</th>
<th>A levels</th>
<th>IB</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc Medical Physiology and Therapeutics</td>
<td>B121</td>
<td>3 years</td>
<td>AAB-ABB</td>
<td>34-32</td>
</tr>
</tbody>
</table>

English language requirements
IELTS 6.5 (no less than 6.0 in any element). For more information and a list of the alternative English language requirements we accept, please see nottingham.ac.uk/go/alternativerequirements

Developing your academic English and study skills
The Centre for English Language Education (CELE) offers you the opportunity to develop your English language skills at one of the world’s top universities. Accredited by the British Council for the teaching of English, CELE provides high-quality teaching, facilities and support.

Our presessional courses take your English language and academic skills to the level you need to progress to undergraduate study without taking IELTS again. Find out more at nottingham.ac.uk/cele

Why study with us?

For more information about our course, please visit nottingham.ac.uk/ugstudy/mpt

Find out where a degree in medical physiology and therapeutics could take you at nottingham.ac.uk/medicine

* QS World University Rankings 2016.
BSc Medical Physiology and Therapeutics

Our innovative degree allows you to combine the study of an expansive range of subjects within the medical and health sciences.

Year one
During the first year, you will study the major body systems that will build the foundation of your knowledge. You will begin by taking an in-depth look at body systems in health and disease states. Topics may include:
- Learning how the body defends itself against infection and disease
- An overview of human anatomy, physiology and biochemistry
- Study of the musculoskeletal and nervous system

Alongside your scientific knowledge, you will develop core study and academic skills.

Year two
In the second year, you will continue core modules which may cover:
- An overview of the anatomy, physiology, molecular, and cognitive features of the nervous system
- Human reproduction, including pregnancy, birth and treating infertility
- Drug action and the treatment of disease, covering common diseases such as diabetes, renal disease and cancer

You will also begin to expand your knowledge of areas that interest you through a choice of optional modules, which may include:
- Cancer biology
- Cardiovascular disease
- Skeletal muscle in health and disease
- Respiratory disease

Year three
In the final year, the focus moves to enhance your research skills. Half of the year will be spent in a research environment. You will design, plan and execute your own research project, supported by expert academics from the school’s and faculty’s research groups.

Other topics covered may include:
- Key skills in research design and methods
- Developing employability skills and researching careers or further study

There are additional special study modules for you to choose from so you can tailor your studies to your individual interests. See the module table opposite for typical modules we offer.

For more detailed course content visit nottingham.ac.uk/ugstudy/mpt

Typical modules

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td>Core</td>
<td>Core</td>
</tr>
<tr>
<td>Body Structure, Body Function</td>
<td>Contemporary Insights and Skills</td>
<td>Personal and Professional Development</td>
</tr>
<tr>
<td>Infection and Defense</td>
<td>Neuroscience</td>
<td>Research Design, Research Methods and Statistics</td>
</tr>
<tr>
<td>Movement</td>
<td>Pharmacology and Therapeutics</td>
<td>Research Project</td>
</tr>
<tr>
<td>Study and Academic Skills</td>
<td>Reproduction</td>
<td>Special study</td>
</tr>
<tr>
<td>Supply and Demand 1-3</td>
<td>Optional</td>
<td>Clinical Cases in Endocrinology and Diabetes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Diagnostic Histopathology and Imaging</td>
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<tr>
<td></td>
<td></td>
<td>Rehabilitation and Long Term Conditions</td>
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<tr>
<td></td>
<td></td>
<td>Skeletal Muscle Physiology and Metabolism in Exercise, Health and Disease</td>
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<tr>
<td></td>
<td></td>
<td>The Cellular Basis of Disease</td>
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</tbody>
</table>

Below is an example timetable for year one to give you an idea of how you will spend your time

<table>
<thead>
<tr>
<th></th>
<th>9-10am</th>
<th>10-11am</th>
<th>11am-12pm</th>
<th>12-1pm</th>
<th>1-2pm</th>
<th>2-3pm</th>
<th>3-4pm</th>
<th>4-5pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>lecture</td>
<td>lecture</td>
<td>lecture</td>
<td></td>
<td>tutorial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday</td>
<td>lecture</td>
<td>lecture</td>
<td>lab practical</td>
<td></td>
<td>lab practical</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td>lecture</td>
<td>lecture</td>
<td>lecture</td>
<td></td>
<td>no teaching – sport/leisure time</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td>lecture</td>
<td>lecture</td>
<td>tutorial</td>
<td></td>
<td>lecture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td>lecture</td>
<td>lecture</td>
<td>lab practical</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Explore different topics through theory and laboratory work, giving you a varied learning experience.

Engaging study, incredible results

You will take part in innovative classroom and practical sessions, including access to prospected human cadavers.

Teaching and assessment
We use a blended curriculum of:
- lectures
- seminars
- tutorials
- laboratory sessions

For some modules there may be opportunities to visit external organisations to aid learning, such as the Cancer Imaging Centre at the University of Oxford or the Endocrine Clinic at our local NHS trust.

A range of assessments will be used depending on the module, including:
- essays
- exams
- group work
- oral presentations
- portfolios
- poster production
- practical write-ups
- research dissertations

Exams take place twice a year at the end of each semester.

Support
When you start the course, you will be assigned a personal tutor. Their role is to review your academic progress each semester and help with any personal matters. Your personal tutor will act as a gateway to the wider student support and development provision of the University.

Facilities
The Royal Derby Hospital Centre is purpose-built, providing you with all the facilities you need to study. The centre offers:
- a dedicated undergraduate laboratory
- flexible classrooms
- an anatomy suite
- a clinical skills suite
- a large computer suite
- a clinical research laboratory
- a large multidisciplinary library
- communal rooms

Key Information Sets
Key Information Sets (KIS) are comparable sets of information about full or part-time undergraduate courses and are designed to meet the information needs of prospective students. All KIS data is published on the Unistats website: unistats.co.uk

For Nottingham’s KIS data, please see individual course entries at nottingham.ac.uk/ugstudy

For more information about studying medical physiology and therapeutics, visit nottingham.ac.uk/medicine/mptteaching
How to apply

All applications for an undergraduate place to study at the University of Nottingham, including applications by international students, must be made through the Universities and Colleges Admissions Service (UCAS). Applications should be made online at ucas.com and candidates will be notified of decisions through UCAS Track.

Your personal statement
This is the section of your UCAS form that tells us most about you, and you should make the best use of it. Be as specific and detailed as you can – we would like to see that you are a student who can work hard, be self-motivated and make the best possible use of the opportunities that our courses offer you. We would also like to hear about any skills you have gained through extracurricular activities.

Entry requirements
We accept the following qualifications:

- **GCSEs**
  - English and maths grade 4 (C) or above.

- **A levels**
  - AAB-ABB, including B or above in biology or chemistry at A level. A pass is required in science practical tests, if assessed separately.

**GCSE reform**
In keeping with the reform to GCSEs in England where subjects are to be graded from 9 to 1 instead of A* to G, we can confirm that in accordance with Ofqual recommendations, we will treat GCSEs graded numerically as GCSE grade A=7, B=5, C=4. GCSE qualifications taken outside of the UK will still be graded A* to G.

**Alternative qualifications**
In this brochure you will find our A level entry requirements but we accept a much broader range of qualifications.

- Access to HE Diploma
- Advanced Diploma
- BTEC HND/HNC
- BTEC Extended Diploma
- Cambridge Pre-U
- International Baccalaureate
- Irish Leaving Certificate
- Scottish Advanced Highers
- Welsh Baccalaureate Advanced Diploma

This list is not exhaustive; we will consider applicants with other qualifications on an individual basis. Please contact us to discuss the suitability of your qualification.

**Flexible admissions policy**
We recognise that some educational and personal circumstances affect achievement. If we judge that you have experienced circumstances that have adversely affected your achievement, we will consider them when assessing your academic potential. Some courses may vary the offer as a result. For the most up to date information about our offers, please see the entry requirements section of our course pages on our online prospectus. For more information about this policy, please see nottingham.ac.uk/ugstudy/applying

**Mature applicants**
We encourage applications from mature applicants who have a significant gap in education. You should apply in the normal way through UCAS. More information for mature students can be found at nottingham.ac.uk/mature

**International applicants**
The University provides a range of information and advice for international applicants. If you are unable to attend an open day, we can meet you in your country at one of our overseas events or arrange an individual visit to the University. For further information please visit nottingham.ac.uk/go/international-applicants

**Deferred entry**
Applicants who wish to defer their entry by a year will not be at a disadvantage. Please tell us something about your plans for your gap year in your UCAS personal statement.

**Equal opportunities policy**
The University aims to create the conditions whereby students and staff are treated solely on the basis of their merits, abilities and potential, regardless of gender, race, colour, nationality, ethnic or national origin, age, socio-economic background, disability, religious or political beliefs, trade union membership, family circumstances, sexual orientation or other irrelevant distinction.

To find out how to apply please visit nottingham.ac.uk/ugstudy/applying

We have a range of resources available to guide you through each stage of the application process.
Be the first choice for your future employer

As a graduate, you’ll have obtained a broad range of skills valued by employers in scientific and clinical research, the NHS, and a diverse range of graduate employers across the public sector.

97% of first-degree graduates
in the Faculty of Medicine
and Health Sciences
who were available for employment had secured work or further study within six months of graduation.*

£24,710 was the average starting salary with the highest being £50,000.*

Examples of just a few of the professions that our graduates can enter as trainee practitioners/scientists include:
- pharmaceutical and clinical research
- respiratory or cardiac physiology
- haematology
- biotechnology
- tissue banking

Medical physiology and therapeutics students work closely (and share some teaching) with our graduate entry medicine students in the school; therefore, are well placed to undertake further study in graduate entry medicine and other postgraduate study (e.g. MSc, PhD).

The University’s Careers and Employability Service

Our Careers and Employability Service has a team dedicated to Faculty of Medicine and Health Sciences students. They will be on hand to offer you specialist support and guidance throughout your degree and for life after you graduate.

Whether you need help writing a CV, preparing for an interview or exploring career ideas, finding an internship or part-time work, you can book one-to-one appointments or come along to a workshop. Each term there is also an exciting events schedule, bringing you face-to-face with employers offering real-life insight into their professions.

The Nottingham Advantage Award

The award-winning Nottingham Advantage Award recognises and rewards your extracurricular activities. With a choice of over 200 modules, you can hone the key skills employers want. From developing your leadership skills and learning a language to public speaking and volunteering, you will leave university with demonstrable experience that sets you apart from other graduates.

For further information, please visit nottingham.ac.uk/careers/advantage

Find out where Nottingham could take you and network with our graduates on LinkedIn.

* Known destinations of full-time home first-degree undergraduates 2014/15. Salaries are calculated based on those in full-time paid employment within the UK.
Experience it in a world beyond ordinary

There’s so much for you to get involved in and explore at the University and around the city. Whether you’re interested in sports, learning a language or just having fun with friends alongside studying, you’ll be spoilt for choice.

Getting involved in your Students’ Union

University of Nottingham Students’ Union (UoNSU) is a brilliant, diverse community, and whether you are an undergraduate or postgraduate, first-year or final-year student, you are a part of it. With 300+ student-led groups, clubs and societies, hundreds of volunteering opportunities and support for every stage of your university journey, your Students’ Union offers something for everyone. Find out more: su.nottingham.ac.uk

Exploring your new city

Nottingham city centre is around a 10-minute bus ride away from University Park Campus, so you’re always close to the action. There’s plenty of music venues from the world-famous Rock City, Motorpoint Arena or one of the smaller gig venues for a more intimate live show. If you enjoy shopping, there are independent boutiques and vintage shops as well as high street names in our large shopping centres. Nottingham is also a hotspot for dining, with a great choice of cuisines on offer. Find out more: nottingham.ac.uk/nottinghamlife

Your new home from home

At Nottingham we offer a wide range of room types across the campuses in both catered and self-catered accommodation. From standard single rooms with shared bathrooms to large en-suite studios and flats, there’s something to suit every budget and personal choice. For current pricing and to review all accommodation options please visit nottingham.ac.uk/accommodation

Sport

The University of Nottingham is one of the UK’s leading universities for sport and is currently ranked 4th in the university sport rankings*. We have one of the biggest portfolios of sports facilities in the country including the brand new £40m David Ross Sports Village. We also have a rich heritage of supporting Olympic medallists and we have more than 70 student sports clubs to choose from. Find out more: nottingham.ac.uk/sport

* British Universities and Colleges Sport Standings, 2015-16.

Your support network

Throughout your university journey there will be numerous people on hand to support and advise you, including tutors and dedicated staff. We have Student Service Centres on all three of our UK campuses, which provide a range of support, information and specialist services. Find out more: nottingham.ac.uk/studentservices

Music

All student musicians at the University of Nottingham are encouraged to get involved with the vibrant musical life on campus. Find out more: nottingham.ac.uk/music/performance

Your opportunity to study abroad

We offer a range of study abroad opportunities with many students having the option to live and study in another country as part of their university career. Studying or working abroad is a fantastic opportunity to broaden your horizons, experience different cultures, and develop the key skills that employers are looking for. Find out more: nottingham.ac.uk/studywithus/studyabroad

Learn a language

The University’s Language Centre gives you the opportunity to study a language alongside your course. All languages are offered from beginners’ level with some going up to near native competency. There are nine languages to choose from: Modern Standard Arabic, Dutch, French, German, Italian, Japanese, Mandarin Chinese, Russian, and Spanish. Find out more: nottingham.ac.uk/language-centre