Medical Physiology and Therapeutics

Detect it

Apply it

nottingham.ac.uk/medicine
Undergraduate guide 2020
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Be inspired by our award-winning campuses

Our UK campuses have won 22 Green Flag Awards
A member of the prestigious Russell Group and founding member of the global Universitas 21 network

Learn alongside medical students

Study a broad range of medical science subjects

Learn anatomy through access to human cadavers

Spend half of your final year in a research environment

Be taught by clinical and non-clinical academic scientists

Outstanding teaching and learning
Teaching Excellence Framework, 2017
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. You’ll study in our purpose-built facilities at the University of Nottingham’s School of Medicine, based at the Royal Derby Hospital.

You’ll benefit from teaching from both clinical and non-clinical academics. As a graduate, you will be capable of responding to the growing demands of healthcare. A broad range of professional careers will be open to you, including clinically based training programmes within the NHS, career progression within the pharmaceutical industry, or continuing your professional training via masters, PhD or graduate entry medicine programmes.

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

Dr Wayne Carter
Admissions Tutor

nottingham.ac.uk/medicine
Studying medical physiology and therapeutics at Nottingham

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

Royal Derby Hospital Centre
You will study in our modern, purpose-built Royal Derby Hospital Centre in Derby. The centre is based on-site at one of the biggest hospitals in the East Midlands.

Facilities include:
- a dedicated undergraduate laboratory
- an anatomy suite
- a clinical skills suite
- a large computer suite
- a clinical research laboratory
- a multidisciplinary library
- social communal rooms

There are dedicated halls of residence at the University of Derby for Nottingham students, which have good transport links to the centre.

Alternatively, you can live in Nottingham and use our regular hopper bus service to travel between the Royal Derby Hospital Centre and University Park Campus.

Why study with us?

QS World University Rankings 2019.

At a glance

- Study a broad range of subjects within the medical sciences, including anatomy, cell biology and physiology
- Adapt the course to your interests with a choice of optional modules in years two and three
- Access an anatomy suite with prosected human cadavers

Life in Derby
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.
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>Single honours</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<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>

^ To include biology or chemistry. A pass in science practical tests is also required, if assessed separately.

Foundation courses
Applicants who are not eligible for direct entry to undergraduate study may be able to apply for a foundation course. Find out more at nottingham.ac.uk/foundationcourses

English language requirements
IELTS 6.5 (no less than 6.0 in any element). For details of other English language tests and qualifications we accept, please see nottingham.ac.uk/go/alternativerequirements

Academic English preparation
If you require additional support to take your language skills to the required level, you may be able to attend a preessional course at the Centre for English Language Education, which is accredited by the British Council for the teaching of English in the UK.

Students who successfully complete the presessional course to the required level can progress onto their chosen degree course without retaking IELTS or equivalent. Find out more at nottingham.ac.uk/cele

nottingham.ac.uk/ugstudy/mpt
Our course

What our students say

Katie Horton

My favourite thing about this course is the diversity of topics available to study. There are opportunities to gain experience in cutting-edge clinical research with specialist members of staff.

Thomas Yu

I’ve really enjoyed my time on the course. The range of medical science taught will act as a firm foundation for me to pursue a career within the medical field.

Larissa Schaffert

I have developed scientific and clinical skills in a range of different areas, which provides an excellent basis for my future objective to undertake further studies in graduate entry medicine.
Our innovative degree allows you to combine the study of an expansive range of subjects within the medical and health sciences.

Year one
You’ll begin by studying the major body systems in health and disease states. Topics include:

- how the body defends itself against infection and disease
- human anatomy, physiology, biochemistry and haematology
- the musculoskeletal and nervous system

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

Year two
In the second year, you’ll be expected to have more autonomy for your learning. Core modules will introduce you to new topics which cover:

- 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

Optional modules will allow you to expand your knowledge in areas that interest you. You’ll be encouraged to think about your future study or career aspirations when choosing modules, with your personal tutor providing guidance.

Year three
For this year, the focus moves to enhance your research skills. Half of the year will be spent in a research environment where you’ll work alongside academics from the faculty’s research groups. This is your chance to use the skills you’ve learned to design, plan and execute your own research project.

In addition, you’ll undertake core modules to support your research and prepare for graduation. Topics include:

- key skills in research design and methods such as reviewing literature, compiling bibliographies and scientific writing
- developing employability skills and researching careers or further study options

There are additional special study modules for you to choose from so you can tailor your studies to your individual interests.

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><strong>Core</strong></td>
<td><strong>Core</strong></td>
<td><strong>Core</strong></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 Defence</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></td>
</tr>
<tr>
<td>Supply and Demand 1–3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Optional</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cancer Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiovascular Disease</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory Disease</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skeletal Muscle in Health and Disease</td>
<td></td>
<td></td>
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Modules may change, for example due to curriculum developments. The above list is a sample of typical modules that we offer, not a definitive list. The most up-to-date information can be found on our website at nottingham.ac.uk/ugstudy

### Example year one timetable

<table>
<thead>
<tr>
<th></th>
<th>9-10am</th>
<th>10-11am</th>
<th>11am-noon</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><strong>Monday</strong></td>
<td>Free period (FP)</td>
<td>Lecture</td>
<td>Lecture</td>
<td>Lunch</td>
<td>FP</td>
<td>Tutorial</td>
<td>Lecture</td>
<td>FP</td>
</tr>
<tr>
<td><strong>Tuesday</strong></td>
<td>FP</td>
<td>Lecture</td>
<td>Lab practical</td>
<td>Lunch</td>
<td>FP</td>
<td>Lab practical</td>
<td>FP</td>
<td></td>
</tr>
<tr>
<td><strong>Wednesday</strong></td>
<td>FP</td>
<td>FP</td>
<td>FP</td>
<td>Lunch</td>
<td>No teaching – sport/leisure time</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thursday</strong></td>
<td>FP</td>
<td>Lecture</td>
<td>Lecture</td>
<td>Lunch</td>
<td>Tutorial</td>
<td>Lecture</td>
<td>FP</td>
<td>FP</td>
</tr>
<tr>
<td><strong>Friday</strong></td>
<td>FP</td>
<td>Lecture</td>
<td>FP</td>
<td>Lunch</td>
<td>Lab practical</td>
<td>FP</td>
<td>FP</td>
<td></td>
</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 prosected human cadavers.

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

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
- verbal presentations
- portfolios
- poster production
- practical write-ups
- research dissertations

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

nottingham.ac.uk/medicine/mptteaching
Support
You’ll be assigned a personal tutor in the first year who will support you through your whole degree. 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.

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
Outstanding careers support

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

98.5% of undergraduates from the faculty secured work or further study within six months of graduation*

£24,000 was the average starting salary of our graduates in 2017*
Further study
You’ll also be well placed to undertake postgraduate study. Recent graduates have gone on to complete programmes in:

- graduate entry medicine
- physician associate studies
- physiotherapy
- public health
- radiotherapy and oncology
- stroke medicine

Amplify your potential
Whether you already have a plan or need some inspiration, our Careers and Employability Service is here to help.

Academic excellence and employability go hand in hand at Nottingham. Your course, and the diverse student experiences we offer, will enable you to develop the skills and professional competencies required to thrive in the job market of the future.

We will help you explore your options, so you feel confident making choices about what you want to achieve. Our team will support you as you build your CV, search for jobs, prepare applications, practise your interview technique, and much more.

Get the Advantage
The career-enhancing Nottingham Advantage Award recognises and rewards your extracurricular activities. With a choice of over 200 modules, you can hone the key skills employers are looking for.

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, visit nottingham.ac.uk/careers/advantage

Typical graduate destinations:
- clinical research and trials
- biotechnology
- haematology
- histopathology
- pharmaceutical research and sales
- respiratory or cardiac physiology

* Known destinations of full-time home undergraduates who were available for work 2016/17. Salaries are calculated based on the median of those in full-time paid employment within the UK.
How to apply

All applications for full-time undergraduate study at Nottingham, including applications by international students, must be made through UCAS.

You can apply online at ucas.com and 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.

Minimum entry requirements
Unless otherwise stated in individual course profiles, all UK applicants should have GCSE English grade 4 (C) as a minimum.

Alternative qualifications
In this brochure you will find our A level and International Baccalaureate entry requirements but we accept a much broader range of qualifications. For more details, visit nottingham.ac.uk/ugstudy/applying

Flexible admissions policy
In recognition of our applicants' varied experience and educational pathways, we employ a flexible admissions policy. If we judge that your situation has adversely affected your achievement, then we will consider this when assessing your academic potential. Some courses may make a slightly lower offer. For more information about this policy, see nottingham.ac.uk/ugstudy/applying

Mature applicants
We encourage applications from mature applicants who have a significant gap in education. You should apply through UCAS. Find out more 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/international

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.

If you wish to declare a disability, please ensure that you have ticked the appropriate box on your UCAS application form. Disclosure of this information will not affect your application.

nottingham.ac.uk/ugstudy/applying
Live and study abroad as part of your degree
nottingham.ac.uk/studywithus/studyabroad

Accommodation to suit every budget and personal choice
nottingham.ac.uk/accommodation

10 minutes by tram or bus from the city for music, food and shopping
nottingham.ac.uk/nottinghamlife

300+ clubs, societies and opportunities
su.nottingham.ac.uk

Student Service Centres on all UK campuses for support and advice
nottingham.ac.uk/studentservices

Sports University of the Year 2019* with over 70 student sports clubs
nottingham.ac.uk/sport


Join in with the vibrant musical life on campus and in the city
nottingham.ac.uk/music/performance

Choose from 9 modern languages to study alongside your course
nottingham.ac.uk/language-centre
This brochure has been drafted in advance of the academic year to which it applies. Every effort has been made to ensure that the information contained in this brochure is accurate at the time of publishing, but changes (for example to course content) are likely to occur given the interval between publication and commencement of the course. It is therefore very important to check our website for any updates before you apply for the course by following nottingham.ac.uk/ugstudy. Where there is a difference between the contents of this brochure and our website, the contents of the website take precedence.