Where could neuroscience take you?

Neuroscience is a growing field of science. A deeper understanding of how the brain and nervous system works is vital to improving people’s lives.

Our degree programme started in 1987 and is one of the most established and respected in the UK. The brain is the organ that controls every aspect of the body and we will help you discover its secrets. From recognising how and why we behave as we do, to understanding neurological diseases, at Nottingham you will be encouraged to become part of the future of neuroscience.

As you would expect in a research-led university, our curriculum constantly changes to reflect new developments. For example, we recently introduced a module about ‘the ageing brain’, which recognises the increasing burden on our healthcare system of an ageing population who are susceptible to neurodegenerative and neurovascular disease.

I teach a module on neuroendocrinology where we discover how the brain regulates hormonal systems that control all the important things in life: eating, drinking, sleeping, sex and love.

I look forward to meeting some of you to discover these and other aspects of neuroscience further.

Professor Fran Ebling
Course Director for Neuroscience

nottingham.ac.uk/life-sciences

Studying neuroscience at Nottingham

Experience a degree with a strong clinical and pharmacological bias, studying neuroscience-specific modules from week one.

Opportunities for specialisation
In each year of the course, there are optional modules that enable you to tailor the course to your interests.

Many students particularly enjoy the final-year research project. You will have the opportunity to specialise in one of a wide choice of research areas, which have previously included studies on:
- behaviour
- brain imaging
- depression
- Alzheimer’s disease
- pain
- stroke
- tumour biology

You will work alongside research-active academics on your project, and some students even have their work published.

Inspiring teaching and research
Your studies will be based in the Medical School, which is embedded in the Queen’s Medical Centre. You will be taught by clinicians, psychologists, anatomists, neuropharmacologists and other biomedical scientists, providing you with a wide experience of neuroscience.

The research undertaken at Nottingham is reflected in our teaching. Nottingham is home to magnetic resonance imaging (MRI) and continues to be at the forefront of this technology. On campus is the Sir Peter Mansfield Magnetic Resonance Centre.

We also host the Arthritis Research UK Pain Centre, where researchers are working on understanding pain better and achieving more effective ways to deal with it.

nottingham.ac.uk/life-sciences
Neuroscience is the study of the brain, spinal cord and peripheral nervous system. You will learn the normal function and dysfunction associated with the central nervous system.

Year one
Alongside an introduction to neuroscience, you will study the fundamental aspects of human physiology, pharmacology and the essentials of cellular processes, including genetic mechanisms and biochemical metabolism. In addition, you are introduced to various areas of neuroscience research techniques, and you’ll acquire skills in oral and written presentation.

Year two
This year will consolidate the main areas and approaches to neuroscience, enabling you to gain specific training in practical and analytical techniques. You will develop an understanding of how the nervous system develops, is organised, and processes information. The role of neurons and glia are explained, and the neurobiology of a variety of human neurological conditions will be explored. Optional modules are available from the school.

Year three (MSci only)
If you choose the MSci course, you will spend the third year on a selected placement and training programme. There are opportunities to apply for placements in the UK or abroad in pharmaceutical companies. Another option is to study at a partner university through the Universitas 21 programme.

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 preessional 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
### Typical modules

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three (MSci only)</th>
<th>Final year</th>
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<tbody>
<tr>
<td><strong>Core</strong></td>
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<tr>
<td>Core skills in Neuroscience</td>
<td>Building Brains</td>
<td>Neuroscience Research Project</td>
<td>Neuroscience</td>
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<tr>
<td>Fundamentals of Neuroscience</td>
<td>Higher Skills in Neuroscience</td>
<td>Synoptic Module</td>
<td>Research Project</td>
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<tr>
<td>Genes, Molecules and Cells</td>
<td>Neurobiology of Disease</td>
<td>Sensory Neuroscience</td>
<td>Synoptic Module</td>
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<tr>
<td>Human Physiology</td>
<td>Neurons and Glia</td>
<td>Optional module</td>
<td>Sensory Neuroscience</td>
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<tr>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
<td><strong>Optional</strong></td>
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<tr>
<td>Evolution, Ecology and Behaviour</td>
<td>Animal Behaviour and Physiology</td>
<td>Advanced Pharmacology</td>
<td>Neuroscience</td>
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<tr>
<td>Life on Earth</td>
<td>Pharmacological Basis of Therapeutics</td>
<td>Biological Rhythms</td>
<td>Pharmacological Basis of Therapeutics</td>
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<td></td>
<td></td>
<td>Computational Neuroscience</td>
<td>Pain</td>
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<td></td>
<td></td>
<td>Environmental Neuroscience</td>
<td>.optional module</td>
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<td></td>
<td></td>
<td>Epigenetics</td>
<td>Human Physiology</td>
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</tbody>
</table>

For placement either in industry or study abroad exchange.

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/neuro

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**Example timetable**

Below is an example timetable taken from year one. This will give you an idea of how your time may be spent.

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>9-10am</td>
<td>Lecture Human Physiology</td>
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<td>10-11am</td>
<td>Lecture Human Physiology</td>
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<td>11am-12pm</td>
<td>Lecture Human Physiology</td>
<td>Lecture Human Physiology</td>
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<td>Lecture Human Physiology</td>
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<tr>
<td>12-1pm</td>
<td>Lecture Human Physiology</td>
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<td>Lecture Human Physiology</td>
<td>Lecture Human Physiology</td>
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<tr>
<td>1-2pm</td>
<td>Lecture Human Physiology</td>
<td>Lecture Human Physiology</td>
<td>Lecture Human Physiology</td>
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<td>2-3pm</td>
<td>Lecture Human Physiology</td>
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<td>3-4pm</td>
<td>Lecture Human Physiology</td>
<td>Lecture Human Physiology</td>
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<tr>
<td>4-5pm</td>
<td>Lecture Human Physiology</td>
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</tbody>
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For my final-year research project, I am working with the pain group in the Queen’s Medical Centre. I am researching the inflammatory effects of pain and looking at how these are created and how they can be treated.

Tia MacIntyre, BSc Neuroscience

nottingham.ac.uk/ugstudy/neuro
Engaging study, incredible results

University study is likely to be very different from what you are used to, but we'll support you through the transition.

Teaching methods
You will learn through a variety of methods depending on the module. These may include:
- lectures
- seminars
- laboratory classes
- workshops
- tutorials

Assessment methods
Assessment varies on the module being studied, but is typically a combination of:
- exams
- essays
- dissertations
- laboratory reports
- presentations

Exams happen twice a year at the end of each semester.

Student support
When you start the course, you will be assigned a personal tutor. Personal tutors are members of academic staff in the school and they will:
- monitor your academic progress and check on your wellbeing
- provide exam marks and help you reflect on feedback
- act as a first point of contact for any guidance on academic or personal matters

We still offer small group tutorials. This ensures you have enough time to build a relationship with your tutor and benefit from their support. Your fellow tutees also provide peer support.

Additionally, the school has a dedicated Welfare Officer and a Student Liaison Officer who are available to help you adapt to university life and provide advice on more complex issues.

Library and computing services
At Nottingham, you will benefit from access to an extensive collection of printed and online library resources. In addition, you will have both on and off-campus access to a wide range of databases, ejournals and ebooks. Life sciences students have access to two specialist libraries:
- George Green Library, which has recently undergone an £18m redevelopment, to provide more study space and information technology facilities
- Greenfield Medical Library, which is home to health and medical texts as well as having group study rooms and silent study zones

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

nottingham.ac.uk/life-sciences/teaching
Outstanding careers support

As a graduate, you will have obtained a broad range of skills valued by employers in sectors such as scientific research, consultancy, biotechnology, clinical sciences and more. Many graduates choose to pursue further study including masters, PhDs or graduate entry medicine.

92% of undergraduates in the school had secured work or further study within six months of graduation*

£21,037 was the average starting salary, with the highest being £42,000*

Recent graduate destinations:
- Axol Bioscience: laboratory production scientist
- Nielsen: neurophysiologist
- Ashfield Healthcare UK: recruitment executive
- Public Health England: healthcare scientist
- Cancer Research UK: clinical trial assistant

Amplify your potential

Whether you already have a plan or need some inspiration, your 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

* Known destinations of full-time home undergraduates who were available for work 2015/16. Salaries are calculated based on the median of those in full-time paid employment within the UK.
How to apply

All applications for 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

GCSE reform
Following the reform of GCSE grading in England from A*–G to 9–1, we have adopted Ofqual’s recommended equivalence. This means that GCSE grade A*=9, A=7, B=5/6 and C=4. GCSE qualifications taken outside of the UK will still be graded A* to G.

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/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.

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

Choose from 200+ student-led groups, clubs and societies at your Students’ Union
su.nottingham.ac.uk

One of the UK’s leading universities for sport* with over 70 student sports clubs
nottingham.ac.uk/sport

* British Universities and Colleges Sports Standings, 2016-17.

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

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

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Around one-third of our UK students receive our means-tested core bursary, worth up to £2,000 a year (2018 entry figure; subject to change). For details, see nottingham.ac.uk/financialsupport
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.