## Join a global community

of over 46,000 students, from more than 150 countries

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## Be inspired by our award-winning campuses

Our UK campuses have won 22 Green Flag Awards between them

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Choose from a wide variety of research projects

A member of the prestigious Russell Group and founding member of the global Universitas 21 network

Gain an understanding of biomedical science with a focus on cancer

Undertake a work placement in the UK or abroad if you choose the MSci

Access new facilities within the purpose-built Centre for Cancer Sciences opening in 2019

Broaden your study with optional modules

Outstanding teaching and learning
Teaching Excellence Framework 2017
Welcome to the cancer sciences programme. This new, innovative course will provide you with an understanding of the causes of cancer and the molecular basis of new and established cancer treatments.

Our programme prepares you for a career in cancer research, in industry or academia. It is also excellent preparation for a career in one of many cancer-related areas, including research project administration, the management of clinical trials or science communication.

The course builds on the University of Nottingham’s reputation for excellence in cancer research and it is delivered by staff working in a newly established Centre for Cancer Sciences.

We aim to inspire the next generation of cancer researchers as well as inspiring students whose interests lie outside of research but who have a strong interest in this area. We will provide training in the principal areas of current cancer research focusing on experimental science and the delivery of practical experience of basic and specialised research techniques. This will allow you to develop a wide set of transferable skills across areas including problem-solving, data interpretation, and data presentation.

I hope that you will find this new course exciting and engaging and I look forward to meeting you.

Kevin Gaston
Professor of Cancer Sciences
and Course Director
Cancer sciences at Nottingham

Finding new ways to defeat cancer is a goal that scientists all over the world have set themselves. Join us and you could be one of them.

Benefit from new facilities
We’re investing in a new Centre for Cancer Sciences that will house teams of multidisciplinary researchers and provide an excellent environment for teaching and learning. There will be opportunities for you to work here during your final year project.

Experience joined-up teaching
Our course is designed to both inspire and educate. It will encourage you to be creative as well as teaching you to be an independent learner. There will be a mixture of lectures, practical laboratory classes, small-group tutorials, problem solving workshops, and writing workshops. Small-group tutorials and workshops will encourage you to question and analyse material presented in lectures.

Practical classes will give you hands-on laboratory experience and develop your ability to plan and conduct experiments. This joined-up approach will help you to consolidate your learning and make the most of your research projects.

Be part of groundbreaking research
Cancer sciences is the perfect course if you are ready to participate in potentially groundbreaking research to tackle one of the UK’s biggest killers. Working on novel ideas, you will be able to explore new techniques alongside our internationally recognised academics.

You can choose from a wide variety of potential research topics, and receive one-to-one supervision and mentoring. You will also see how research is translated into new treatments and new approaches to patient care through enterprise and industry participation.

Get a head start in your career
If you choose the MSci course, you’ll have a guaranteed work placement in your fourth year. This additional year of study will prepare you well for future research in an academic or industry setting. You will develop your independence as a scientist as well as proving to future employers that you have the professional experience they look for.
Our courses

<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 Cancer Sciences</td>
<td>B131</td>
<td>3 years</td>
<td>AAB^</td>
<td>34</td>
</tr>
<tr>
<td>MSci Cancer Sciences</td>
<td>B130</td>
<td>4 years</td>
<td>AAA^</td>
<td>36</td>
</tr>
</tbody>
</table>

^ To include at least two science subjects, one of which must be biology or chemistry.

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 presessional 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

What’s an MSci?
MSci degrees are undergraduate-level courses which last for four years and have an integrated masters qualification. They are the equivalent to a bachelors degree plus a masters level qualification. These courses usually provide additional industry and/or research experience to enhance your future prospects. An MSci is excellent preparation for further study such as a PhD.

If you choose to study an MSci, your student loan will cover tuition fees and living costs for the additional year too (home/EU students only). If you are unsure on whether to choose an MSci or BSc, we recommend you choose the MSci to secure your funding. Transfer to the BSc is possible.

nottingham.ac.uk/ugstudy/cancersciences
BSc | MSci  
Cancer Sciences

Study the life cycle of cancer with the aim of understanding how to prevent and treat the disease.

Year one
Your introductory year will cover the basics of what causes cancer, how it progresses, and how debilitating it can be to a person’s health. You will study the hallmarks of cancer which explain why it is so difficult to treat.

Other topics will deepen and expand your knowledge of human biology, including physiology and the biology of molecules and cells, and you will choose an optional module from a wide range of options including: Fundamentals in Neuroscience, Frontiers in Physics, Evolution, Ecology and Behaviour or even a foreign language.

Experimental laboratory work is a vital part of the year and we will teach you practical skills as well as giving you experience in experimental design, data analysis, and data presentation.

Year two
In your second year, you will look in more depth at what contributes to cancer, using case studies to better understand this. You will become familiar with different cancers and how they spread and escape the immune system. This will include the study of lung cancer, breast cancer, bowel cancer, prostate cancer and ovarian cancer, amongst others. You can learn in depth about a cancer of your choosing – working with cancer doctors specialising in that area. You will also gain practical experience in a cancer research laboratory.

Transferable skills will also be developed in year two. This includes the analysis of primary scientific literature and the presentation of your research as written reports.

Year three
In year three you will explore the DNA of cancer cells and how they interact with their environment. You will also look at the role of the immune system in cancer development, and in novel cancer therapies that are being translated into clinical practice.

Your studies will culminate in a 12-week research project that will allow you to make new discoveries in a cancer research laboratory. You will work with our professors, postdoctoral researchers and PhD students as part of a dedicated team with access to specialist equipment, excellent research facilities, and mentoring from experts in the field.

Year four
The MSci year involves a placement either in industry or in an academic setting, with opportunities to study abroad. During this year you will enhance your already established research skills while experiencing what a career in research involves. You will have one-to-one supervision from experienced researchers and access to outstanding facilities. This experience could be your stepping stone to postgraduate study or to research in industry.

nottingham.ac.uk/ugstudy/cancersciences
### Typical modules

<table>
<thead>
<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core (BSc/MSci)</strong></td>
<td><strong>Core (BSc/MSci)</strong></td>
<td><strong>Core (BSc/MSci)</strong></td>
</tr>
<tr>
<td>Hallmarks of Cancer</td>
<td>Oncogenes, Tumour Suppressors, and Growth Factor Biology: Highlighting Lung Cancer and Breast Cancer</td>
<td>Cancer Immunology</td>
</tr>
<tr>
<td>Causes and Consequences of Cancer</td>
<td>Blood Supply and Tumour-Host Interactions</td>
<td>Tumour Microenvironment</td>
</tr>
<tr>
<td>Genes, Molecules and Cells</td>
<td>Cancer Spread and DNA Repair: Highlighting Bowel Cancer and Ovarian Cancer</td>
<td>Cancer Biology and New Therapies</td>
</tr>
<tr>
<td>Human Physiology</td>
<td>Cancer Cell Genetics</td>
<td>Patient Portfolio</td>
</tr>
<tr>
<td></td>
<td>Patient-Centred Library Project</td>
<td></td>
</tr>
<tr>
<td><strong>Optional (BSc/MSci)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modules such as:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fundamentals in Neuroscience/</td>
<td></td>
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<tr>
<td>Life on Earth/Frontiers in</td>
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<tr>
<td>Physics/Introduction to</td>
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<tr>
<td>Scientific Archaeology/</td>
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<tr>
<td>Evolution Ecology and</td>
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<tr>
<td>Behaviour/Arabic/French/</td>
<td></td>
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<tr>
<td>Japanese/Mandarin</td>
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</tbody>
</table>

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/cancersciences](http://nottingham.ac.uk/ugstudy/cancersciences).

### Example timetable

<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><strong>Monday</strong></td>
<td>Practicals/seminars</td>
<td>Lunch</td>
<td>Practicals/seminars</td>
<td>Lecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tuesday</strong></td>
<td>Lecture</td>
<td>Practicals/seminars</td>
<td>Lunch</td>
<td>Lecture</td>
<td>Practicals/seminars</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wednesday</strong></td>
<td>Practicals/seminars</td>
<td>No teaching – sport/leisure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Thursday</strong></td>
<td>Lecture</td>
<td>Practicals/seminars</td>
<td>Lunch</td>
<td>Practicals/seminars</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Friday</strong></td>
<td>Practicals/seminars</td>
<td>Lunch</td>
<td>Lecture</td>
<td>Practicals/seminars</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Cancer research

Study with us, and you’ll be joining our extraordinary group of multidisciplinary researchers, challenging the current knowledge of cancer sciences to improve patients’ lives.

Professor David Bates
Director of the Centre for Cancer Sciences and Professor of Oncology

David’s research team discovered a new class of proteins that change the way cancer cells interact with the environment, make blood vessels grow, switch off the immune system, and become immortal. These proteins control how RNA is spliced, generating thousands of different, sometimes tumour-specific, gene products. His group now works on bowel, lung, and bile duct cancers to discover new drug treatments that work through this RNA splicing pathway. This has led to some unexpected spin-offs, including a new drug development company working on treatments for blindness as well as cancer, and collaborations in Thailand, where bile duct cancers are a major cause of cancer deaths.

Associate Professor Claire Seedhouse
Division of Cancer and Stem Cells

Patients with some types of leukaemia initially respond well to chemotherapy treatment but unfortunately they often relapse and die of their disease. Claire’s research group is studying why relapse might happen at a cellular and molecular level and identifying molecules which may be targeted by new therapies. Research also focuses on the recurrent mutations that occur in some leukaemias and how they change the way leukaemia cells respond to drugs. Research in this field aims to reduce the relapse rate of leukaemia so that more patients survive.

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

You will taught by expert researchers and teachers to develop a comprehensive understanding of biomedical science with a focus on cancer.

Studying cell and molecular biology, genetics, and physiology will help you to appreciate what causes cancer and how new treatments are developed.

There will be an opportunity to work with cancer doctors to understand what happened to a patient who had cancer, from diagnosis to the end of treatment. You will also see how knowledge of the molecular mechanisms that underlie individual cancers is being applied to patient management.

Teaching and assessment
We provide a varied learning programme. How you learn will depend on the module, but may include:

- laboratory classes
- lectures
- research projects
- seminars
- tutorials
- workshops

Assessment varies on the module being studied, but typically is a combination of:

- dissertations
- essays
- exams
- group work
- laboratory reports
- portfolios
- poster presentations
Support
All students have a personal tutor. Personal tutors are members of academic staff in the school who will:

- monitor your academic progress and check on your wellbeing
- provide exam marks and help you to reflect on feedback
- act as a first point of contact for any guidance on academic or personal matters

Additionally, the school has dedicated Welfare Officers who are available to help you adapt to university life and provide advice on more complex issues.
Outstanding careers support

As a graduate, you’ll have knowledge of biochemistry, genetics, immunology, physiology, cell and molecular biology, as well as an understanding of the complexity of cancer.

This knowledge, along with the range of transferable skills you develop, will prepare you for a variety of careers.
Further study
Due to our research focussed approach, you’ll be in a good position to undertake further study such as a masters or PhD in cell biology, oncology, or allied fields. There is also the option of graduate entry medicine for those interested in a more clinical role.

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

Possible graduate destinations:
- research and development
- clinical trials
- drug development
- cancer policy and fundraising
- publishing
- science communication
- research finance
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.

In 2019-20 the UK Core Bursary will offer up to £2,000 for each year of undergraduate study. For details see: nottingham.ac.uk/financialsupport
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 8 modern languages to study alongside your course
nottingham.ac.uk/language-centre
For undergraduate enquiries contact:
Student Recruitment Support Hub

+44 (0)115 951 5559
nottingham.ac.uk/contact
uonmedicine
@MedicineUoN

nottingham.ac.uk/ugstudy/cancersciences

This publication is available in alternative formats:
+44 (0)115 951 5559

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.