Welcome to the School of Biosciences

In the School of Biosciences we take great pride in all that we do. Our school consistently receives high student satisfaction scores for teaching in the National Student Survey and results from the latest Research Excellence Framework, a national assessment of university research, is judged a premier research environment in the UK.

We offer exciting degree courses delivered by inspiring and dedicated staff, where you will study in a friendly and supportive community. Our wide range of undergraduate and postgraduate courses explore contemporary issues in biosciences such as global food security, sustainable agriculture and the environment and its protection.

All our courses, except those in environmental sciences and environmental biology, are primarily studied at our Sutton Bonington Campus. As a highly successful research-led school we have excellent specialist laboratory and field facilities, including a new £5m purpose-built teaching laboratory.

If you’re interested in our courses we have separate brochures in the areas of:
- Agricultural Sciences and Agricultural Business Management
- Biotechnology, Microbiology and Plant Science
- Environmental Science and Environmental Biology
- Food Science, Nutrition and Dietetics

Gaining a degree in these subjects is the springboard to a diverse range of graduate careers in the sciences and other professions. We have a strong focus on graduate employability within our degree programmes.

We hope to welcome you to Nottingham soon.

Professor Simon Langley-Evans
Head of the School of Biosciences

Whatever your ambitions, our aim is to help you achieve them here at Nottingham.

To find out where a degree in biosciences could take you, please visit nottingham.ac.uk/biosciences
Studying animal science at Nottingham

Studying animal science at Nottingham gives you a scientific understanding of fundamental animal biology and the training to be able to apply this knowledge to you and your career aspirations.

Teaching and research
You will be taught by subject specialists, the majority of whom are active researchers in the most rapidly developing areas of biosciences. Many of our academic staff are also expert advisors to government institutions, industry, and other national and international bodies. You will benefit from our extensive links with companies and institutions.

Study abroad and industry placement opportunities
Unlike many other animal science courses in the UK, at Nottingham you will have the opportunity to study abroad for a semester or a year, or to spend a year working in industry, normally as a paid employee. This is a fantastic opportunity for not only academic but also personal development, where you can gain valuable experience putting your learning into practice and also enhance your employability prospects. For more information, see pages 10-11.

At a glance
- 91% of biosciences students are satisfied with the quality of their degree*
- No. 1 research environment in the UK**
- State-of-the-art laboratory facilities

Our courses

<table>
<thead>
<tr>
<th>Degree title</th>
<th>UCAS code</th>
<th>Duration</th>
<th>A levels</th>
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<tbody>
<tr>
<td>BSc Animal Science</td>
<td>D320</td>
<td>3 years</td>
<td>ABB-BBB</td>
<td>32-30</td>
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* Including two science-based subjects (biology and chemistry preferred, but include geography, maths, physics and psychology). Citizenship studies, critical thinking, general studies and leisure studies are not accepted. We may also consider ABC depending on predicted grades in specific subjects.

English language requirements
IELTS 6.0 (no less than 5.5 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?
I love my course as it provides a perfect balance between theory and practical work. The academic staff are enthusiastic and friendly; their lectures are engaging and they are always there to answer any queries.
Jess Perry, BSc Animal Science


To find out where a degree in biosciences could take you, please visit nottingham.ac.uk/biosciences
For more information about our courses please visit nottingham.ac.uk/ugstudy/biosciences
Typical modules

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<tr>
<th>Year one</th>
<th>Year two</th>
<th>Year three</th>
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<tr>
<td>Core</td>
<td>Core Physiology and Health pathway</td>
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<tr>
<td>- Animal Biology</td>
<td>- Endocrine Control Systems</td>
<td>- Coordinated Physiological Functions</td>
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<td>- Biochemistry - The Building Blocks of Life</td>
<td>- Physiology of Electrically Excitable Tissues</td>
<td>- Reproduction and Fertility</td>
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<td>- Biosciences Tutorials and Foundation Science</td>
<td>- Principles of Animal Health and Disease One</td>
<td>- Research Project</td>
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<td>- Genes and Cells One</td>
<td>- Professional Skills for Bioscientists</td>
<td>- Systems Neurophysiology</td>
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<td>- Introduction to Nutrition</td>
<td>- Reproductive Physiology</td>
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<td>- Introductory Physiology</td>
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<td>- The Biosciences and Global Food Security</td>
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<tr>
<td>Optional</td>
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<tr>
<td>- Endocrine Control Systems</td>
<td>- Endocrine Control Systems</td>
<td>- Livestock Nutrition pathway</td>
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<tr>
<td>- Professional Skills for Bioscientists</td>
<td>- Professional Skills for Bioscientists</td>
<td>- Animal Nutrition</td>
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<td>- Reproductive Physiology</td>
<td>- Reproductive Physiology</td>
<td>- Livestock Production Science</td>
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<td>- Research Project</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

BSc Animal Science

The scientific study of basic animal physiology, developmental biology, reproduction, behaviour, bioethics, nutritional sciences and biochemistry is important for improving the productivity of animals and wellbeing of companion species, while supporting their health and welfare.

Interaction of animal science with the pharmaceutical industry is developing, with further links to human nutrition, biomedical science and physiology also advancing.

These advancements require well-trained and adaptable scientists who understand fundamental animal biology, but who can apply their knowledge and understanding. Flexibility and a varied choice of modules make animal science at Nottingham a broad-based course.

Field trips and visits to relevant research organisations are also an integral part of the course.

**Years one and two**

During year one, you will follow a broad base of modules in the animal sciences. In year two, depending on your interests and future career aspirations, you will choose to study either the Physiology and Health pathway or the Production and Nutrition pathway.

**Year three**

In year three you will carry out a major research project in a supervised environment. Our academics in animal sciences are at the cutting edge of research into reproduction, development, growth and health of domestic animals, including major programmes in genetics, nutrition, reproduction, early development, animal biotechnology, neurophysiology and applied bioethics.

You may either work in close collaboration with animals (farm livestock, companion species) and/or laboratory procedures to study animal physiology or biochemistry at a molecular, tissue and organ level.

Some library-based projects are available, giving you the opportunity to carry out an in-depth study of the scientific literature in an area of your interest.

Some projects are undertaken at other research institutes or zoos – we have links with nearby Twycross Zoo and the Durrell Wildlife Park in Jersey.

**Accreditation**

This course is accredited by the Association for Nutrition. Students taking the appropriate modules are eligible to become registered nutritionists, managed by the Association for Nutrition. For more information see associationfornutrition.org

On this course you can go on an industry placement and/or study abroad.

**Year in computer science**

You can combine this degree with an extra year (between years two and three) in the University’s School of Computer Science. This year is designed to provide you with training in software development and computing skills relevant to your final year research project and to your future career. You will be able to transfer into this programme from your BSc course (subject to progression criteria).

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

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
Sutton Bonington Campus

The School of Biosciences is based at Sutton Bonington Campus, 12 miles south of University Park. The campus is also home to the School of Veterinary Medicine and Science and there are around 2,000 students studying across the two schools.

The campus has its own accommodation, sports centre, teaching and research facilities. The campus is known for its friendly community ethos and beautiful setting. A free daily bus service, running every 30 minutes in term time, connects Sutton Bonington to University Park.

To find out more information about studying biosciences, visit nottingham.ac.uk/biosciences
Study abroad

Animal science is a global subject and studying at one of our highly ranked university partners abroad will give you the unique opportunity to see your degree from a different perspective.

Studying abroad takes you out of your comfort zone, helping you to develop valuable skills, such as independence and resilience, which are attractive to future employers. The School of Biosciences offers a range of study abroad opportunities.

University-wide exchange programme

The University-wide exchange programme gives you the opportunity to study abroad for the first semester of your second year. Successful candidates will study at one of our partner universities in a variety of locations, including Australia, Canada, Singapore and the USA.

International year

Combining Animal Science with an additional international year offers the opportunity to study abroad at one of our partner universities, in France or Spain for example. You can transfer to this four-year route in your first semester of study.

Finance

Studying abroad need not be any more expensive than studying in Nottingham if you budget your finances well and take advantage of available funding. The University International Office offers a number of bursaries and scholarships to students studying abroad.

All students who participate in one of the University’s exchange programmes pay a reduced tuition fee to the University of Nottingham during the academic year when they study abroad. No tuition fees are paid to the host university.

Moving to a country by myself which speaks another language with cultural differences was a daunting prospect at the start and one that took me outside of my comfort zone and challenged me. This, however, only made it more exciting and rewarding. I now have a great addition to my CV and made lifelong friends from all over the world and amazing memories in the process.

Charis Jones, BSc Animal Science

To find more information about studying abroad, visit nottingham.ac.uk/studyabroad

Industry placement

Many students in the School of Biosciences take advantage of an optional year in industry between years two and three of their degree, extending their degree to a four-year programme.

This industry placement allows students to develop a range of skills and enhance their employment prospects, while, in the majority of cases, being paid a salary.

During the year in industry you can put your learning into practice, giving you a better understanding of your studies and the chance to solidify your knowledge in an industry setting. Past students have found the experience rewarding, as they were able to use science and innovation to solve problems which are current and relevant.

The year’s work experience will significantly improve your employment prospects - many students secure a graduate job as a direct result of their placement year. You are treated by your host company just the same as any other employee, being given real responsibility and the opportunity to work independently in a professional setting.

A year in industry gives you the opportunity to develop a wide range of skills in a real-world environment. You can gain experience of how to communicate with people from a range of backgrounds, work to tight deadlines, manage multiple projects and deal with conflicting priorities. It’s a unique opportunity for you to learn about what you enjoy doing, your strengths and weaknesses, and the kind of environment you like working in, which will put you in a strong position when considering your future career.

The school has excellent links with a wide range of businesses and research institutes. The dedicated School Placement Team works with you in partnership to help you search, apply for and secure a placement, as well as supporting you throughout your placement. Some examples of relevant companies include: The Waltham Centre for Pet Nutrition, the Centre for Environment, Fisheries and Aquaculture Science, McDonald’s, Chester Zoo, the Game and Wildlife Conservation Trust, Port Lympne Reserve, and AB Agri.

Students who undertake the year in industry have the opportunity to submit a record of their placement in order to become a Registered Scientist with the Science Council – the UK’s professional science body.

I thoroughly enjoyed working with all of the animals, the team and the physical nature of the job. I feel this experience will benefit me greatly in the long run when I finish university and enter the job market.

Sam Weatherall, BSc Animal Science, undertook a year’s placement at Chester Zoo

To find more information about industry placements, visit nottingham.ac.uk/biosciences/placements
Engaging study, incredible results

We want you to have the best possible learning experience, whatever course you choose. At the School of Biosciences you will experience an integrated range of teaching and learning styles, from traditional lectures, practicals, small-group discussions and tutorials to contemporary multimedia and online systems.

Modules
Modules are self-contained units of study that usually run for one semester but some are year-long. All our undergraduate programmes are modular with assessment at the end of each module. Although some modules are core, you can choose from a range of other optional modules. Depending on your timetable you may also be able to take modules from other schools across the University.

Your research project
One of the strengths of all our degrees is the final year research project module. This allows you to work on your chosen area, typically supervised by research scientists, and provides the opportunity for you to demonstrate your abilities to future employers. It involves independent study, a literature survey and data handling, analysis and interpretation. The project also develops significant transferable skills, including critical thinking.

Your personal tutor
You will have a personal tutor who is a member of academic staff and will take a close interest in your academic progress and general wellbeing. You will be able to talk to your tutor in confidence about academic and other, more general concerns. They can be a valuable source of information and advice.

Facilities
As a highly successful, research-led School we have excellent laboratory and field facilities, including:
- metabolism laboratories – for nutritional studies with farm animals
- an animal science teaching laboratory – complete with the most modern equipment and an extensive suite of teaching and research laboratories in animal science covering molecular, cellular and tissue studies
- a campus-based University Farm and Dairy Centre – a 450 hectare mixed farm, with arable crops, 200 dairy cows (robotically milked), a sheep flock, environmental stewardship land and new and established woodland
- James Cameron-Gifford Library at Sutton Bonington Campus
- the Learning Resource Centre – up to date, 24-hour IT facilities, including two resource areas with workstations and full audiovisual projection facilities, video and laptop links

How will I be assessed?
Our courses are assessed in a variety of ways, including exams, coursework assignments, a dissertation, computing assignments, essays, oral presentations, posters and laboratory reports. The final degree classification is based on marks gained for the second and subsequent years of study.

For more information about studying biosciences, visit nottingham.ac.uk/biosciences

The course is really enjoyable and the way that it’s structured means everyone can reach the same level of understanding early on so that no one is left behind.

Matthew Bourne, BSc Animal Science
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 UCAS.

Applications should be made online at ucas.com and candidates will be notified of decisions through UCAS using 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.

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

These include:
- 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.

Keep up to date with applications by checking ucas.com regularly

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

Over one-third of our UK students receive our means-tested core bursary, worth up to £2,000 a year. For details, see nottingham.ac.uk/financialsupport
World class for employability

Our Animal Science degree is highly regarded by a wide range of employers. The unique blend of fundamental science, practical application (including human nutrition and physiology) and insight into social perspectives has enabled graduates to follow a wide variety of careers.

Careers and Employability Service

Our Careers and Employability Service has a team dedicated to Faculty of Science 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, 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.

Recent graduate destinations

- Para-medical/para-veterinary sciences
- The pharmaceutical industry
- Technical nutrition involved with research and development for the animal feed industry or within government advisory institutes
- Academic and industrial research programmes in basic and applied physiology, nutritional biochemistry and animal production both in the UK and overseas, often leading to higher degrees
- Business consultancy in management, sales and marketing in the feed and human food industries

The Nottingham Advantage Award

The 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.

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

Find out more about the Careers and Employability Service
nottingham.ac.uk/careers

£20,367 was the average starting salary of first-degree graduates in 2015.*

Further study opportunities

Many of our graduates choose to continue their studies and undertake further research to MSc, MRes, MPhil or PhD level at the University of Nottingham or elsewhere. Opportunities for further study within the school include taught postgraduate courses in a wide range of specialist subject areas.

We offer a one-year taught postgraduate MSc Animal Nutrition offering the opportunity to study farm, companion and zoo animal nutrition at an advanced level.

£20,367 was the average starting salary of first-degree graduates in 2015.*

I already had a keen interest in working with livestock and knew that I wanted to be involved in animal production; nutrition fitted in perfectly with this. I also wanted to gain the accreditation in nutrition. I still have my university notes by my desk at work that I refer to!

Anna Haigh, BSc Animal Science, now working as a nutritionist for Premier Nutrition (part of AB Agri), undertook a year’s placement at Chester Zoo.
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.

Your new home from home
At Nottingham we offer a wide range of room types on and off campus, in both catered and self-catered accommodation. At Bonington Student Village you will have your own study bedroom in a shared flat with a fully fitted kitchen/diner. Whatever your budget and preferences, there should be a room to suit you. For a breakdown of pricing and to find out more: nottingham.ac.uk/accommodation

Exploring your new city
Nottingham city centre is just a short bus ride away from Sutton Bonington Campus, so you’re always close to the action. There are plenty of music venues, from the world-famous Rock City to the 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 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

Getting involved in your Students’ Union
As soon as you start with us, you are automatically enrolled as a member of our Students’ Union. At Sutton Bonington we have our own dedicated SU team, the Guild. There are lots of activities to provide you with the perfect opportunity to take up a new hobby or pursue existing interests. Choose from over 50 student-run societies. Find out more: su.nottingham.ac.uk

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

Your new home from home
At Nottingham we offer a wide range of room types on and off campus, in both catered and self-catered accommodation. At Bonington Student Village you will have your own study bedroom in a shared flat with a fully fitted kitchen/diner. Whatever your budget and preferences, there should be a room to suit you. For a breakdown of pricing and to find out more: nottingham.ac.uk/accommodation

Sport
As one of the UK’s leading universities for sport, currently ranked 4th in the university sport rankings*, there has never been a better time to get involved. Whether you’re an elite athlete or simply looking to enjoy sport as a hobby, our brand-new £40m David Ross Sports Village will allow you to excel and have fun. Sutton Bonington has a sports centre on campus, with top of the range facilities. Find out more: nottingham.ac.uk/sport

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

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
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.