Search out what **inspires** you

Primo Star



UNDERGRADUATE STUDY 2022



WE OFFER YOU A WARM WELCOME AT THE SCHOOL OF LIFE SCIENCES

WARWICK IS RANKED



The Guardian 2021 league tables



WELCOME

We pride ourselves on excellent teaching, delivered by inspiring teachers and world leading academic researchers.

We are proud that all our courses are accredited by the Royal Society of Biology, the leading professional body for Biological Sciences in the United Kingdom.

Through our teaching and your learning you will be introduced to key academic principles and techniques that enable the fantastic diversity of life on our planet to be understood. Our modules range from subcellular to the population, from experimental chemistry to theoretical modelling, physiology, disease and the environment. You will learn in a variety of settings; tutorials, lectures, workshops, practicals and private study. Our degrees are flexible and enable you to tailor your choices to your interests.

We develop your future potential from the start of your degree through your academic development and through development of key personal skills that provide the basis for employment in a wide range of sectors. Personal and senior tutors will support you throughout your time with us.

Warwick provides excellent facilities to enable you to make the most of your time here. Our Students' Union offers over 250 student societies and our campus sports facilities cater for both team and individual activities.

We look forward to welcoming you to one of our Open Days soon.

Miriam Gifford Head of School

> "I've found all the lecturers are really open to having discussions about their research and things I'm interested in. The lectures are really interactive and engaging." James Lythall, Biomedical Science



HOW DO WE ENSURE YOUR SUCCESS?

Explore new ground, satisfy your curiosity and develop career goals in an inclusive and stimulating learning environment.

Senior Tutors

Our Director of Wellbeing and Senior Tutors work in a team with Personal Tutors to ensure your welfare while you study with us. We work in collaboration with central support services to ensure a high level of welfare support.

BioCafe

Run by students for students, BioCafe offers weekly peer-support sessions covering writing lab reports to revision techniques.

Science 101

Science 101 is a skills-based module for Year 1 students to help you transition from school to university study. It provides you with the key skills required to enable you to develop as an independent learner.

Quantitative Biology Centre (QuBiC)

All Life Sciences degrees require good quantitative skills. To develop the necessary mathematical and statistical skills, the School runs QuBiC, a daily drop-in service to support you with the quantitative content of your degree.



Student Staff Liaison Committee (SSLC)

The Student Staff Liaison Committee is made up of student representatives from all undergraduate courses and members of staff. The committee provides a space for students to discuss anything related to teaching, learning and student support. The SSLC is one of the ways in which students can get involved in the running of the School.

"The SSLC have done a great job in making sure that our views are being heard" Lindo Nyathi, Biomedical Science

BioSoc - Warwick students' Biology Society

A student run society open to all years helping everyone to make the most of their time as a Life Sciences student. Attending BioSoc social events is a great way to meet new people on your course.

BioMed Grid

To support your study, you have full access to the BioMed Grid based on Gibbet Hill Campus. This is a learning environment for biologists, with text books, careers information, video editing, SMART boards, plasma screens and presentation rooms.

🔜 warwick.ac.uk/biomedgrid

- "The BioMed Grid is a great space for working alone and collaborating with other students. Having a 'mini library' close to where I study is great."
- Olivor Holman, Biological Sciences

WARWICK'S LIFE SCIENCES GRADUATES ARE RANKED IN THE

TOP 10 FOR HIGH EARNINGS FIVE YEARS AFTER GRADUATION

Government's 2018 Longitudinal Education Outcomes

Placement Year in Industry

We offer support and guidance to help you gain valuable work experience across a range of jobs.

- "The placement year was by far and away the most valuable experience. It provided a framework to allow me to have a year's work in a field I would have found very challenging to get into otherwise."
- Tara Harding, Biochemistry with Placement Year

Study Abroad

Expand your options by applying to study abroad in partner institutions across the world.

Support for Further Study and Medical School Application

We offer a successful support programme for applications to further study and graduate entry medicine.



WHAT ARE MY CAREER PROSPECTS?

Search out what inspires and excites you, explore your capabilities and as a graduate you will be highly employable.

Our Royal Society of Biology accredited degrees with their high academic content have a strong reputation with employers. We work with students from the outset to develop the skills demanded by today's employers and develop skills for life.

The Careers Team within Student Opportunity offers a number of programmes and sessions to assist your personal development. In addition, the School's dedicated senior careers consultant and placements officer, provide one-to-one appointments, run careerfocused workshops and network events with past students and relevant employers to support your employability journey.

We offer a successful support programme for applications to further study and graduate entry medicine.

84% OF MBIO STUDENTS GRADUATED WITH A **FIRST CLASS DEGREE IN 2020**



The Graduate Market in 2021, High Fliers Research Ltd.

What can I do with a Degree in Life Sciences?

Our graduates have careers in a wide range of sectors including:

Biology related

- Academic research
- Industrial research
- Medicine
- Scientific Publishing
- Public Health
- Teaching
- ▶ Wildlife Conservation.

Non-biology related

- Business and Marketing
- Accountancy and Finance
- 🕨 Law
- Computing
- Media
- Civil Service.

Many of our students go on to postgraduate study, gaining a Masters or PhD or entry into graduate medical school.

Employer destinations include:

Biology related

- ▶ GlaxoSmithKline
- Springer Nature
- NHS
- ► AstraZeneca
- RAGT Seeds
- Severn Trent Water.

Non-biology related

- Brainlabs Digital Advertising Agency
- KPMG
- Lloyds Bank
- Mantlepiece PR
- ► HMRC.



"The careers support I received at Warwick was invaluable. The team helped me to secure a placement year working within an NHS IVF unit. In doing this, I knew my ultimate goal was to obtain a place on the highly competitive NHS scientist training program. Thanks to the department, I am now on my way to becoming a fully qualified embryologist and helping people across the UK to start their families."

Eleanor Gay, Biomedical Science with Placement Year

RSB HIGHLIGHTED THE **COLLEGIATE RELATIONSHIP CREATED BETWEEN OUR STAFF AND STUDENTS** AND **THE CLEAR LINKS TO RESEARCH THROUGHOUT**

Royal Society of Biology Accreditation Report 2021





HOW WILL I LEARN?

Benefit from a high number of contact hours with the School's research active academic staff and close supervision throughout your course in an environment that will support and challenge you.

You will learn through a combination of tutorials, lectures, laboratory work, and independent and group research.

Tutorials

You will have weekly (Year 1) or biweekly (Years 2 and 3) taught tutorials primarily with your personal tutor. These sessions, in groups of around seven students, ensure that you are able to develop, engage and receive regular feedback on your work. In tutorials, you will complete a range of assignments including problem sets, essays, question and answer sessions and formal presentations. This regular contact with your personal tutor throughout your course provides one-to-one support for your academic work and career development.



Laboratories & Learning Suite

You will have a significant quantity of laboratory time, providing you with the opportunity to develop your laboratory skills. Labs follow on from the lectures to further improve your understanding of the application of scientific theory into practice.

Learning in our interactive suite of 120 iMac computers gives you the opportunity to develop a high standard of bioinformatics and computational skills, essential for modern biology.

Assessment

You will be assessed in a variety of ways. Students submit course work in the form of multiple choice tests, essays and poster presentations. Each lab ends with the writing up of an assessed laboratory report, or in-lab assessment.



"The best part of my course is definitely the labs. Helpful and friendly staff and really interesting topics keep me going."

Sanjna Gupta, Biomedical Science



WHAT COURSES ARE AVAILABLE TO ME?

Biological Sciences

BSc (C100), BSc with Placement Year (C101) MBio (C1A1), MBio with Industrial Placement (C1A5)

Biochemistry

BSc (C700), BSc with Placement Year (C701) MBio (C1A2), MBio with Industrial Placement (C1A6)

Biomedical Science

BSc (B900), BSc with Placement Year (CB19) MBio (C1A3), MBio with Industrial Placement (C1A7)

Neuroscience

BSc (B140), BSc with Placement Year (B141) MBio (B142), MBio with Industrial Placement (B143)

Our degree courses are designed to provide choice and flexibility.

We recognise that your interest in particular aspects of biology will develop as you learn. A core syllabus is offered in the first year for all degree courses providing the essential foundations in biology and biochemistry. The same content means that it is often possible to transfer between the different degrees at the end of the first year.

Our second year has just been extensively redeveloped as part of an ongoing curriculum review which is now focused on enhancing our third year programme.

All our degrees offer a placement year option of either a year's work experience or a year's study abroad and our in-house Placement Officer offers support throughout the process.

Our degrees are all accredited by the Royal Society of Biology (RSB) and our MBio degrees hold advanced accreditation. RSB accredited degrees undergo rigorous, independent assessment to ensure a solid academic foundation in biological knowledge and key skills that prepare graduates to address the needs of employers.

We also contribute to Global Sustainable Development (C1L8), a degree unique to the University of Warwick, and Integrated Science (CF10). "I have gained experience with a variety of laboratory techniques during my degree, especially during my MBio year where I completed an extensive research project. My MBio degree has definitely helped me to gain employment."

Bethany Bowers, MBio Biochemistry



Four-year integrated Masters (MBio) courses

Our MBio courses provide an additional year of study focused on a substantial research project, either within the School or industry. You can apply directly for the MBio courses and you are guaranteed a place on the BSc courses if you do not achieve MBio entry requirements but do achieve BSc entry requirements. Alternatively, if you are a BSc student and achieve 2:1 or above in your second year, you can apply for a transfer on to the related Masters course (transfers are subject to visa requirements for international students).

An MBio degree will give additional skills to boost your employability because it provides the academic and transferable skills desired by employers, for example in project management.



Biological Sciences

BSc (C100), **BSc with Placement Year** (C101): **MBio** (C1A1), **MBio with Industrial Placement** (C1A5)



The course spans the entire scale of biological systems – from molecules to ecosystems. The exceptionally wide range of options within years 2 and 3 of the Biological Sciences degree allows you to choose the modules that are best suited to your interests and career ambitions.

It offers broad exposure to cutting-edge research in molecular, cellular and whole organism biology, while covering applications of science to major global challenges such as environmental management, food security, biotechnology and human health.

Year 1 Modules :

- Molecules, Cells and Organisms
- Animal and Plant Biology
- Agents of Infectious Disease
- Physiology and Metabolism
- Environmental Biology
- Quantitative Skills for Biology.

(Chemistry for Biologists is compulsory for entrants without A2 level Chemistry)

Year 2 Modules :

- Molecular Cell Biology
- Plant Molecular Development
- Genetics and Genomics
- Ecology Principles & Processes
- Biological Oceanography
- Evolution.

Plus one option typically from the following :

- Immunology
- Neurobiology
- Protein Structure & Function
- Clinical Microbiology
- Ecology and its Applications
- Neuropharmacology
- Microbial Pathogens.

Year 3 Modules :

Research Project.

Plus options such as :

- Dynamics of Biological Systems
- Advanced Immunology
- Protein Targeting
- Oncology
- Biological Clocks
- Integrative Neuroscience
- Exploiting Innovation in Biology
- Environmental Science and Management
- Principles of Development
- Bioenergy and Biorefining
- Extreme Environment Biology
- Synthetic Biology
- One World Health and Neglected Tropical Diseases
- Bacteria: Genes to Behaviour
- Science Communication
- Introduction to Secondary Teaching in Biology
- Interdisciplinary and Business modules.

Year 4 Modules (for MBio students) :

Extended Research Project and Research Skills (training in advanced laboratory techniques, data handling and statistical analyses, critical analysis of the literature and designing research proposals).



"This is a very broad course that offers the chance to explore multiple aspects of Life Sciences; to find the area you like best and introduce you to things you'd not thought to explore."

Adam Pickles, Biological Sciences

Biochemistry

BSc (C700), **BSc with Placement Year** (C701): **MBio** (C1A2), **MBio with Industrial Placement** (C1A6)

Following an in-depth foundation in biochemistry, the course broadens out to allow you to focus on more specialist fields. These include biophysical chemistry, which covers biological macromolecules at the atomic level, and understanding the genome and gene regulation. By the third year, optional modules provide you with the opportunity to pursue areas that you find particularly interesting.

You will graduate with a solid background in the biochemical and structural basis of molecular, cellular and developmental processes in a variety of organisms ranging from bacteria to animals.

Year 1 Modules :

- Molecules, Cells and Organisms
- Agents of Infectious Disease
- Physiology and Metabolism
- Physical Chemistry
- Quantitative Skills for Biology
- Organic Chemistry.

Year 2 Modules :

- Molecular Cell Biology
- Enzymology
- Tools for Biochemical Discovery
- Protein Structure & Function
- Neuropharmacology
- Molecular Endocrinology.

Plus options such as :

- Neurobiology
- Immunology
- Evolution
- Ecology and its Applications
- Genetics and Genomics
- Microbial Pathogens.

Year 3 Modules :

- Research Project
- Structural Molecular Biology.

Plus options such as :

- Protein Targeting
- Dynamics of Biological Systems
- Advanced Immunology
- Oncology
- Principles of Development
- Integrative Neuroscience
- Biological Clocks
- Bioenergy and Biorefining
- Extreme Environment Biology
- Synthetic Biology
- Science Communication
- Introduction to Secondary Teaching in Biology
- Interdisciplinary and Business Modules.

THE SCHOOL OF LIFE SCIENCES RECEIVED A SCORE OF

89% FOR OVERALL STUDENT SATISFACTION

IN THE NSS

National Student Survey 2021

Year 4 Modules (for MBio students) :

Extended Research Project and Research Skills (training in advanced laboratory techniques, data handling and statistical analyses, critical analysis of the literature and designing research proposals).

 "I chose Biochemistry because I felt like it allowed me to explore biology from a more analytical and specific perspective which would lead to critical skills that I know employers look for after graduation."
Christiana Liu, Biochemistry with Placement Year





Biomedical Science

BSc (B900), **BSc with Placement Year** (CB19): **MBio** (C1A3), **MBio with Industrial Placement** (C1A7)

The application of new biological concepts in medicine is an evergrowing and exciting process. Developments in molecular, genetic and cellular biology research continue to drive progress in areas ranging from vaccine development to neurodegenerative disease. Drawing on a spectrum of modules, you will come to understand the nature and extent of human and animal disease, both locally and globally.

Year 1 Modules :

- Molecules, Cells and Organisms
- Agents of Infectious Disease
- Physiology and Metabolism
- Quantitative Skills for Biology.

Plus at least one module typically from :

- Animal Anatomy and Histology
- ► Health and Community
- Environmental Biology.

(Chemistry for Biologists is compulsory for entrants without A2 level Chemistry)

Year 2 Modules :

- Blood & Circulation
- Molecular Cell Biology
- Epidemiology & Public Health
- ► Virology
- Immunology
- Microbial Pathogens.

Plus at least one module typically from :

- Neurobiology
- Clinical Microbiology
- Evolution
- Genetics and Genomics
- Molecular Endocrinology
- Neuropharmacology.

Year 3 Modules :

- Research Project
- Modern Approaches to Human Disease.

Plus options such as :

- One World Health and Neglected Tropical Diseases
- Advanced Immunology
- Protein Targeting
- Oncology
- Integrative Neuroscience
- Biological Clocks
- Dynamics of Biological Systems
- Synthetic Biology
- Principles of Development
- Extreme Environment Biology



"I enjoyed my third year as I had so many options to choose from in terms of modules. I felt like I was free to express my interests and I liked how the department put on "chill time" sessions during exam season."

Lindo Nyathi, Biomedical Science

- Science Communication
- Bacteria: Genes to Behaviour
- Introduction to Secondary Teaching in Biology
- Interdisciplinary and Business modules.

Year 4 Modules (for MBio students) :

Extended Research Project and Research Skills (training in advanced laboratory techniques, data handling and statistical analyses, critical analysis of the literature and designing research proposals).



Neuroscience

BSc (B140), BSc with Placement Year (B141): MBio (B142), MBio with Industrial Placement (B143)

Neuroscience encompasses the study of the brain and nervous system in health and disease. It is an enormous field spanning genomic, molecular, cellular, network and behavioural levels. Neuroscience is a truly multi-disciplinary and multidimensional endeavour.

Modules span human brain health and wellbeing, including recent advances in psychiatric conditions, and a neuroscience focused laboratory programme is offered.

Year 1 Modules :

- Molecules, Cells and Organisms
- Agents of Infectious Disease
- Physiology and Metabolism
- Quantitative Skills for Biology.

Plus at least one module typically from :

- Animal Anatomy and Histology
- ▶ Health and Community
- Environmental Biology.

(Chemistry for Biologists is compulsory for entrants without A2 level Chemistry)



Year 2 Modules :

- ▶ Molecular Cell Biology
- Neurobiology
- Neuropharmacology
- Neurobiology of Disease
- Molecular Endocrinology
- Blood & Circulation for Neuroscience.

Plus at least one module typically from :

- Clinical Microbiology
- Epidemiology & Public Health
- Protein Structure & Function
- Evolution
- Genetics and Genomics
- Immunology.

Year 3 Modules :

- Research Project
- Modern Approaches to Human Disease
- Integrative Neuroscience.

Plus options such as :

Advanced Immunology



- Oncology
- Biological Clocks
- Dynamics of Biological Systems
- One World Health and Neglected Tropical Diseases
- Synthetic Biology
- Principles of Development
- Extreme Environment Biology
- Science Communication
- Introduction to Secondary Teaching in Biology
- Interdisciplinary and Business modules.

Year 4 Modules (for MBio students) :

Extended Research Project and Research Skills (training in advanced laboratory techniques, data handling and statistical analyses, critical analysis of the literature and designing research proposals).





HOW CAN I GET INVOLVED IN THE SCHOOL'S RESEARCH?

Become part of our thriving research community making connections with specialists and broadening your horizons.

In our state-of-the-art laboratories we conduct a broad spectrum of interdisciplinary research based round four themes - Biomedical Science, Synthetic Biology and Biotechnology, Environmental Bioscience and Plant and Crop Science.

These themes extend from molecular, to cells and organisms, to populations and span bacteria, viruses, fungi, humans, animals and plants and their environments. Our research has applications for many important areas to society worldwide, and is of high relevance to successful employment for our Life Sciences graduates.

Final Year Project

You will complete a six-week laboratory or data-analysis project in your final year, providing the opportunity to demonstrate independent research work. You will be closely supported by a member of staff and will carry out your research within their group.

You can choose from over 300 general projects and over 100 laboratory-based projects offered by academic staff in a range of diverse research areas. Topics have included; 'A cut above the rest: The feasibility and desirability of head transplants' and 'Synthetic viruses as a cure for superbugs'. Laboratorybased projects have included; 'Inhibition of glyoxalase 1 as a means of developing anticancer therapeutics' and 'Investigating the role of phosphorylation of the protein Tau in Alzheimer's disease'.



"If I didn't take part in the URSS, I definitely would not be where I am now. I was undecided as to whether I wanted to continue into a researchbased career, before starting my URSS project. However, after 6-weeks in the Iab, I decided to do a PhD. I would definitely recommend URSS to anyone interested in what biological research involves." **Beth Richmond**, Biological Sciences

MORE THAN

OF RESEARCH IN THE SCHOOL WAS RATED AS **'WORLD LEADING'** OR **'INTERNATIONALLY** EXCELLENT'

%

IN THE REF 2014 ASSESSMENT

Integrated Masters Degree (MBio)

As part of our MBio degrees you spend a major part of your fourth year undertaking a substantial laboratory research project. This can be within one of the School's research laboratories or alternatively you can work on a project in industry. Recent examples of industrial placements include GlaxoSmithKline, the Health Protection Agency, AstraZeneca and Unilever.

The Undergraduate Research Support Scheme (URSS)

This scheme offers opportunities for undergraduates to gain an insight into research work and to develop valuable transferable skills by gaining experience in a research laboratory over the summer. Bursaries are available through the scheme, and in 2021 100% of Life Sciences students applying for a bursary were successful.

Reinvention

Reinvention: an International Journal of Undergraduate Research is an online, peer-reviewed journal dedicated to the publication of high-quality undergraduate student research. The journal is edited jointly by students from Warwick and Monash University in Australia.

💻 warwick.ac.uk/reinventionjournal

The International Conference of Undergraduate Research (ICUR)

Led by the University of Warwick and Monash University, ICUR is an exclusively undergraduate forum designed to showcase the very best in undergraduate research from across the globe and provides participants with the opportunity to present their work to an international and interdisciplinary audience.

💻 www.icurportal.com

warwick.ac.uk/urss



HOW DO I APPLY?

Applications are made through UCAS. The UCAS code for Warwick is WARWK W20 For more information visit **ucas.com**

We strongly encourage you to visit the University to see campus for yourself and find out what it means to belong to Warwick. If you can't make the trip to Warwick then visit our Online Open Day

4thwallmedia.co.uk/warwick-lifesciences

You can find University Open Day details online warwick.ac.uk/opendays

Once you have applied and have an offer you will be invited to an Offer Holder Open Day when you will be given the opportunity to talk to academic staff and current students and have a look around the School of Life Sciences and the University. You will also take part in a sample tutorial in order to get a taste of what studying here is like.

Successful applicants will be made an offer as soon as possible after their application is received. The offer will be conditional on already having or obtaining the required entry qualifications. If you accept this offer and achieve the required grades in your examinations then your place at the University of Warwick will be confirmed and we will look forward to seeing you at the start of your undergraduate life.

💻 warwick.ac.uk/admissions

Overseas Applicants

The University of Warwick is a community represented by more than 150 nations and here within the School of Life Sciences we warmly welcome overseas applications. We are a diverse department with students and staff from all over the world studying and working together. We have a very safe campus and an extensive support structure to encourage your success.

Local advice about the application procedure is available from all British Council Offices and Warwick representatives.

🔜 warwick.ac.uk/international





"I like the fact that we stay with the same tutor and tutorial group throughout our degree. It's a great way to build a personal relationship with an academic."

Banke Adeleke, Biomedical Science





WHAT ELSE MIGHT I NEED TO KNOW?

Student Fees and Funding

The University wants to ensure that, wherever possible, financial circumstances do not become a barrier to studying at Warwick. We provide extra financial support for qualifying students from lower income families.

☐ warwick.ac.uk/ugfees

👖 warwickfinancefunding

Accommodation

Warwick Accommodation has around 7,000 rooms across a range of residences. All rooms are self-catering. Each of the campus residences is fully managed and has an excellent network of support staff in the Residential Life Team.

💻 warwick.ac.uk/accommodation

Helping you find the right Career

You will have access to specialist Life Sciences careers advice and opportunities to speak with graduate recruiters through Student Opportunity: Careers.

warwick.ac.uk/services/scs

Warwick Students' Union

One of the largest and most active students' unions in the country, Warwick SU is the focal point of campus life here at Warwick.

- 💻 warwicksu.com
- ジ warwicksu



Wellbeing Support

The University has a comprehensive welfare structure in place to ensure that you can easily access advice and guidance throughout your time here.

warwick.ac.uk/supportservices



I of Life Science

ciences Reception



Get in touch

Educational Support Services Team School of Life Sciences, Gibbet Hill Campus, University of Warwick Coventry CV4 7AL

+44 (0) 24 7652 8261

ug.lifesciences@warwick.ac.uk

warwick.ac.uk/uglifesci



warwicklifesci

Linked in

University of Warwick - School of Life Sciences

This information was correct at the time of printing. Our courses, modules and schedules are continually reviewed and updated to reflect the latest research expertise at Warwick, so it is therefore very important that you check the website for the latest information before you apply and when you accept your offer.