

Primo Star

ZEISS

School of Life Sciences

UNDERGRADUATE STUDY 2025

WEOFFER YOU A WARM WELCOME AT THE SCHOOL OF LIFE SCIENCES

WARWICK IS RANKED



HAWAII



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, 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 Academic Support and Senior Tutors work in tandem with Personal Tutors to ensure your welfare while you study with us. We work closely with central support services to ensure a high level of welfare support.

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 or engaging with BioSoc's peer-to-peer mentoring scheme are some of the ways to meet new people on your course.

Science 101

Science 101 is an extra-curricular 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.



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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, Biomedical Science

BioCafe

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

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 textbooks, 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, Biological Sciences

85%

OF LIFE SCIENCES GRADUATES IN 2019-20 FOUND GRADUATE LEVEL JOBS OR STUDY WITHIN 15 MONTHS.

Graduate Outcomes Survey 2023

Placement Year in Industry

Our placements team offer support and guidance to help you secure valuable work experience across a range of sectors and roles.

- "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, 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 graduate entry medicine.



WHAT ARE MY CAREER PROSPECTS?

Find 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 gain skills for life.

The Careers Team within Student Opportunity offers training programmes and sessions to assist your personal development. In addition, the School has a dedicated Careers Consultant and a Placements Officer who offer one-to-one appointments, and run career-focused workshops and networking 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.

FOR GRADUATE PROSPECTS FOR BIOLOGICAL SCIENCES AND BIOMEDICAL SCIENCES IN THE UK

Subject League Table 2025, Complete University Guide

MOST TARGETED UNIVERSITY BY THE UK'S TOP EMPLOYERS IN 2023-24

The Graduate Market in 2024, 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

- Springer Nature
- NHS
- AstraZeneca
- Dept of Health and Social Care
- Lonza
- Oxford Biomedica
- Oxford Nanopore Technologies
- Roche
- ▶ Thames Water
- Unilever

Non-biology related

- KPMG
- BAE Systems Digital Intelligence
- Bank of England
- ▶ BBC
- Deloitte
- Ernst & Young
- National Audit Office



"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 Programme. 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, 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, help you develop your scientific skill-set, as well as engage in and receive regular feedback on your work. In tutorials you will complete a range of tasks supporting your academic development, including problem sets, question and answer sessions, formal written work and presentations. This regular contact with your personal tutor throughout your course provides one-to-one support for your academic and professional skills development, and support on your career trajectory.

IMPORTANT INFORMATION

We are currently undertaking a curriculum review of all our undergraduate Life Sciences degrees. We are in the process of reviewing modules in year 3 to improve the breadth of topics available, and some changes may be introduced for October 2025 entry. Changes to our courses, including core and optional modules, go through the university's rigorous academic processes. As changes are confirmed, we will update the course information on our study pages **warwick. ac.uk/study/undergraduate**. It is therefore very important that you check our study pages for the latest information before you apply and prior to accepting an offer.

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 including multiple choice tests, essays, exams 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, 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. In the first year of all degree programs, we offer a core syllabus encompassing essential concepts in biology and biochemistry to provide a strong foundation. Beyond this core curriculum, you have the flexibility to tailor your academic path in all years of study by selecting from a variety of optional modules. This optionality allows you to explore specialised areas of biology that align with your evolving interests and career aspirations throughout your entire course of study.

All of 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 provides support.

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 annually 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 Life Sciences and Global Sustainable Development (C1L8), and Integrated Natural Sciences (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, MBio Biochemistry



Four-year integrated Master's (MBio) courses

Our MBio courses provide an additional year of study focused on a substantial research project, either within the School or in 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 Master's course (transfers are subject to place availability, and 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 :

- Practical Skills for Biologists 1
- Cellular and Molecular Biology
- Plant Science and Zoology
- Chemistry for Biological Sciences*

Plus three options typically from the following :

- Physiology, Neurobiology and Cell Signalling
- Environmental Biology
- Infection Biology and Microbiology
- Computational Biology
- Anatomy and Histology

*Chemistry for Biological Sciences is compulsory for entrants without a grade C in A2 level Chemistry

Year 2 Modules :

- Practical Skills for Biologists 2
- Genetics and Genomics
- Evolution

Plus four options typically from the following :

- Immunology
- Molecular Cell Biology
- Neurobiology
- Protein Structure & Function
- Clinical Microbiology

- Ecology and its Applications
- Neuropharmacology
- Microbial Pathogens
- Plant Molecular Development
- Ecological Principles & Processes
- Physics of Life
- Virology

Year 3 Modules :

- Research Project
- ▶ Labs and Tutorials

Plus options such as :

- Dynamics of Biological Systems
- Virology and 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, Research Skills (training in advanced laboratory techniques, data handling and statistical analyses, and critical analysis of the literature), Research Proposal and Funding.

"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, 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 :

- Practical Skills for Biologists 1
- Cellular and Molecular Biology
- Physiology, Neurobiology and Cell Signalling
- Chemistry for Biochemists
- Carbon and the Chemistry of Life

Plus one option typically from the following :

- Environmental Biology
- Infection Biology and Microbiology
- Computational Biology

Year 2 Modules :

- Practical Skills for Biologists 2
- Molecular Cell Biology
- Enzymology
- Tools for Biochemical Discovery
- Protein Structure & Function

Plus two options typically from the following :

- Neuropharmacology
- Molecular Endocrinology

- Neurobiology
- Immunology
- Evolution
- Microbial Pathogens
- Ecology and its Applications
- Genetics and Genomics
- Oncology and Biology of Neoplasms
- Physics of Life

Year 3 Modules :

- Research Project
- Structural Molecular Biology
- Labs and Tutorials

Plus options such as :

- Protein Targeting
- Dynamics of Biological Systems
- Virology and Immunology
- Oncology
- Principles of Development
- Integrative Neuroscience
- Biological Clocks
- Bioenergy and Biorefining
- Extreme Environment Biology
- Synthetic Biology
- Science Communication

100% OF STUDENTS

STUDYING THE MBIO BIOCHEMISTRY COURSE FELT THAT THEY "DEVELOPED THE KNOWLEDGE AND SKILLS I THINK I WILL NEED FOR MY FUTURE"

National Student Survey 2023

- Introduction to Secondary Teaching in Biology
- Interdisciplinary and Business Modules

Year 4 Modules (for MBio students) :

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

"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, 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 :

- Practical Skills for Biologists 1
- Infection Biology and Microbiology
- Physiology, Neurobiology and Cell Signalling
- Cellular and Molecular Biology
- Anatomy and Histology
- Chemistry for Biological Sciences*

Plus one module typically from the following :

- Computational Biology
- Health and the Community
- Environmental Biology

*Chemistry for Biological Sciences is compulsory for entrants without A2 level Chemistry

Year 2 Modules :

- Practical Skills for Biologists 2
- Molecular Cell Biology
- Molecular Endocrinology

Plus four modules typically from :

- Blood & Circulation
- Epidemiology & Public Health

- Virology
- Immunology
- Neurobiology
- Microbial Pathogens
- Enzymology
- Oncology and Biology of Neoplasms
- Physics of Life
- Genetics and Genomics
- Protein Structure and Function
- Neuropharmacology

Year 3 Modules :

- Research Project
- Modern Approaches to Human Disease
- Labs and Tutorials

Plus options such as :

- One World Health and Neglected Tropical Diseases
- Virology and Immunology
- Protein Targeting
- Oncology
- Integrative Neuroscience
- Biological Clocks
- Dynamics of Biological Systems



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"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, Biomedical Science

- Synthetic Biology
- Principles of Development
- Extreme Environment Biology
- Science Communication
- Bacteria: Genes to Behaviour
- System Interactions in Human Disease
- Introduction to Secondary Teaching in Biology
- Interdisciplinary and Business modules

Year 4 Modules (for MBio students) :

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



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 :

- Practical Skills for Biologists 1
- Cellular and Molecular Biology
- Physiology, Neurobiology and Cell Signalling
- Anatomy and Histology
- Cell Biology of Neurons
- Chemistry for Biological Sciences*

Plus at least one module typically from :

- Infection Biology and Microbiology
- Computational Biology
- Environmental Biology

*Chemistry for Biological Sciences is compulsory for entrants without A2 level Chemistry



Year 2 Modules :

- Practical Skills for Biologists 2
- Neurobiology with lab
- Neuropharmacology with lab
- Neurobiology of Disease
- Molecular Endocrinology
- Blood & Circulation for Neuroscience

Plus one module typically from :

- Molecular Cell Biology
- Epidemiology & Public Health
- Protein Structure & Function
- Evolution
- Genetics and Genomics
- Immunology
- Invertebrate Neuroscience
- Microbial Pathogens
- Virology

Year 3 Modules :

- Research Project
- Translational Neuroscience
- Integrative Neuroscience
- Labs and Tutorials



Plus options such as :

- Virology and Immunology
- System Interactions in Human Disease
- Oncology
- Biological Clocks
- Dynamics of Biological Systems
- Contemporary Research Topics in Neuroscience
- Synthetic Biology
- Principles of Development
- Modern Approaches to Human Disease
- Science Communication
- Introduction to Secondary Teaching in Biology
- Interdisciplinary and Business modules

Year 4 Modules (for MBio students) :

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



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 around six research clusters - Cells & Development, Environment & Ecology, Microbiology & Infectious Disease, Neuroscience, Plant & Agricultural Biosciences, and Quantitative, Systems & Engineering Biology.

Our themes extend from molecules, cells and organisms to populations, and span bacteria, viruses, fungi, humans, animals, 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. We also have a Teaching Innovation cluster focused on pedagogical research and best practice. This helps us to ensure that our delivery and assessments are contemporary, innovative and inclusive.

Final Year Project

You will undertake a laboratory or data-analysis project in your final year, offering the opportunity to showcase independent research skills. Throughout the project, you will receive close guidance from a designated faculty member and conduct your research within their group. You have the freedom to choose from a wide array of projects spanning diverse research areas.



"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**, Biological Sciences



IN THE REF 2021 ASSESSMENT

Integrated Master's 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 Novartis.

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 2023 all Life Sciences students who applied received a bursary.

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?

Everything you need to know about applying to Warwick is on our web pages. There is up-to-date information about:

- How to apply
- Writing your personal statement
- Key dates and deadlines
- How we process your application
- After you've applied

If you are made and accept an offer, and meet any outstanding conditions, we will confirm your place and look forward to warmly welcoming you at the start of your life here at Warwick.

Overseas applicants

At Warwick, we welcome applications from across the globe, and have dedicated teams available to advise and support, as well as a global network of Agents and Representatives.





Contexual offers

We're committed to supporting students from diverse and under-represented backgrounds. We do this in a variety of ways, including through our contextual admissions policy which is designed to ensure fairness in our admissions processes.







"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, Biomedical Science

RSB HIGHLIGHTED OUR TUTORIAL SYSTEM AND ITS COHERENT CONTINUATION THROUGHOUT THE PROGRAMME AS REPRESENTING GOOD PRACTICE

Royal Society of Biology Accreditation Report 2021



WHAT ELSE MIGHT I NEED TO KNOW?

Fees and Funding

We want 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.

Chat to our students on Unibuddy

If you have questions about living and studying at Warwick, speak to our current students to get answers on:

- Campus life
- Accommodation
- Study support, wellbeing and more



Accommodation

We manage approximately 7,500 self-catered rooms on campus for different budgets and requirements. Living on campus in your first year gives you the opportunity to meet people and form friendships while never being more than a short distance from your lectures or our amazing campus facilities. At Warwick you'll enjoy the freedom of independent living with the security of knowing you're surrounded by people who can support you.







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/careers

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

🔎 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

School of Life Science



School of Life Sciences The University of Warwick Coventry CV4 7AL warwick.ac.uk/fac/sci/lifesci/

sls.admissions@warwick.ac.uk



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Disclaimer: This course information was accurate at the time of publication (May, 2024). While the University tries to ensure that the information is accurate, it does not warrant that this is the case. The University may need to make changes including to the course content, syllabus, delivery, methods of assessment, or to comply with external accrediting or reviewing bodies. It is therefore important that you revisit the relevant course website before you apply and before you accept an offer to ensure you are viewing the most up to date course information. This course information should not be construed as an offer nor does it create a contract or other legally binding relationship between the University and you or a third party. For full terms and conditions, please visit warwick.ac.uk/ugtermsandconditions

