

Biological Sciences

 BSc (Hons)

COURSE DETAILS

- A level requirements: [ABB](#)
- UCAS code: C100
- Study mode: Full-time
- Length: 3 years

KEY DATES

- Apply by: [31 January 2024](#)
 - Starts: 23 September 2024
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Course overview

Study Biological Sciences at Liverpool to focus on the study of living things, and understand how they respond to each other and the world around them.

INTRODUCTION

In this first year, you'll gain an understanding of core concepts of biology as well as the fundamental principles of immunity, infection, and therapy. You will also study how organisms develop and function and learn about ecology and the global environment. You will develop practical skills and participate in field studies, and you will discover how to utilise quantitative skills and study techniques.

WHAT YOU'LL LEARN

- Develop practical and theoretical knowledge of contemporary health and environmental challenges in local, national and international communities.
 - Develop practical skills in your choice of fieldwork or laboratory modules.
 - Enhance your understanding of topical issues and ethical principles in the study of humans, animals and the environment.
 - Become literate in finding, interpreting, evaluating and managing information
 - Communicate ideas effectively to a variety of audiences
 - Work independently and collaboratively
 - Develop critical thinking and problem-solving skills
 - Use lab equipment correctly and safely.
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Course content

Discover what you'll learn, what you'll study, and how you'll be taught and assessed.

YEAR ONE

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COMPULSORY MODULES

- Biology core concepts, principles, and fundamentals BIOS101
- Development, function, immunity, infection, and therapeutics BIOS102
- Introductory Practical Skills for Life Sciences BIOS103
- From Individuals to Ecosystem BIOS104
- Study and Communication Skills Tutorials BIOS105
- Applied Practical Research Skills for Life Sciences BIOS106

Programme details and modules listed are illustrative only and subject to change.

YEAR TWO

In your second year you'll expand your range of knowledge building those essential research skills, experimental design and analysis together with professional skills preparing you for a career within or outside the area of biological sciences. You will study animal and human behaviour, and explore the relationship between cells and how they sense and respond to their environment. In addition, you will have optional modules from a variety of disciplines, enabling you to follow your interest in cellular biology, therapeutics, infection biology, human and animal physiology, marine ecology and comparative/animal biology.

COMPULSORY MODULES

- Genetics, Microbiology & Infection BIOS201
- Intermediary Practical Research Skills for Life Sciences BIOS203
- Academic & professional skills tutorials BIOS205
- Animal Behaviour BIOS207
- The Cellular Basis of Health & Disease BIOS209

OPTIONAL MODULES (CHOOSE ONE)

- Biomolecular / Biochemistry / Pharmacology Practical BIOS204
- Microbiology, Infection & Disease BIOS206
- Practical Skills in Evolution, Ecology and Behaviour BIOS208

OPTIONAL MODULES (CHOOSE TWO)

- Metabolism BIOS212
- Cellular and Systems Physiology BIOS214
- Drug Discovery & Development BIOS216
- Molecular Microbiology & Therapeutics BIOS218
- Animal Anatomy, Physiology & Husbandry BIOS220
- Animal Ecophysiology BIOS222
- Marine Ecophysiology, Ecology and Exploitation ENV5251

Programme details and modules listed are illustrative only and subject to change.

YEAR THREE

Year three will provide an unparalleled opportunity for you to learn at the cutting edge of biological sciences research and be taught by world-leading academics in your choice of subjects. You can choose modules from a variety of disciplines exploring the breadth of biology, ranging from ecology, evolution, and conservation biology to cancer biology, infection biology, molecular systems biology and pharmacology to veterinary infection, immunology and pathology. You will also have the option to develop advanced practical computational or field skills and you will have the opportunity to take a physical or virtual placement. Central to this year is the research project where you will plan and execute your own research, analyse and critically evaluate data and communicate your research findings in your chosen specialisation.

COMPULSORY MODULES

- Research Project BIOS301
- Introduction to the World of Work BIOS302
- Research Methods BIOS303
- Applied Biological Sciences BIOS308

OPTIONAL MODULES (CHOOSE THREE)

- Molecular, Clinical & Translational Cancer BIOS307
- Molecular Systems Biology BIOS309
- Translational Pharmacology BIOS313
- Genomics and Evolution of Microbes BIOS317
- Veterinary Infection Biology BIOS321
- Advanced Ecology for a Sustainable Future BIOS325
- Advanced Topics in Evolutionary Biology BIOS327*
- Zoology Field Course BIOS333*
- Immunology and Veterinary Pathology BIOS335
- Surviving the Marine Environment ENV5310

*either/or

Programme details and modules listed are illustrative only and subject to change.

HOW YOU'LL LEARN

You'll learn through a balanced mix of lectures, workshops, field work, seminars and tutorials as well as hands-on, practical laboratory sessions, working individually and in small groups.

HOW YOU'RE ASSESSED

We have a distinctive approach to education, the Liverpool Curriculum Framework, which focuses on research-connected teaching, active learning, and authentic assessment to ensure our students graduate as digitally fluent and confident global citizens.

LIVERPOOL HALLMARKS

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Careers and employability

As a Life Sciences graduate from the University of Liverpool, you will have an excellent set of career options ahead of you.

Typical types of roles/routes our graduates have gone on include:

- Postgraduate study: (MBiolSci, MSc, MRes, MPhil or PhD)
- Public sector – research institutes, government departments, the National Health Service, forensic science and the Environment Agency.
- Commercial sectors – pharmaceutical, food, biotechnology, water and agriculture industries.
- Journalists and information/liaison officers – by developments in molecular biology and biotechnology.
- Teaching profession by taking a postgraduate qualification (PGCE).
- Routes to postgraduate Medicine, Dentistry or Veterinary Science.

Recent employers and sectors:

- Pharmaceutical sector: Eli-Lilly, AstraZeneca, Glaxo SmithKline, NHS, Red X Pharma;
- Tourism/Conservation sector: Blue Planet Aquarium, Chester Zoo, RSPCA;
- Government/Legal sector: Crown Prosecution Service, The Environment Agency, Public Health England, Home Affairs, Ministry of Defence, Security and International Development;
- Media/Entertainment Sector: BBC;
- Corporate and Utilities sector: United Utilities, Vodafone, Unilever.

4 IN 5 LIFE SCIENCES STUDENTS FIND THEIR MAIN ACTIVITY AFTER GRADUATION MEANINGFUL.

Graduate Outcomes, 2018-19.

Fees and funding

Your tuition fees, funding your studies, and other costs to consider.

TUITION FEES

UK fees (applies to Channel Islands, Isle of Man and Republic of Ireland)	
Full-time place, per year	£9,250

International fees	
Full-time place, per year	£27,200

Fees are correct for the academic year 2024/25

Tuition fees cover the cost of your teaching and assessment, operating facilities such as libraries, IT equipment, and access to academic and personal support. [Learn more about tuition fees, funding and student finance.](#)

ADDITIONAL COSTS

We understand that budgeting for your time at university is important, and we want to make sure you understand any course-related costs that are not covered by your tuition fee. This includes the costs associated with placements or internships, and the optional field course in Uganda.

Find out more about the [additional study costs](#) that may apply to this course.

SCHOLARSHIPS AND BURSARIES

We offer a range of scholarships and bursaries to provide tuition fee discounts and help with living expenses while at university.

Check out our [Undergraduate Global Advancement Scholarship](#). This offers a tuition fee discount of up to £5,000 for eligible students starting an undergraduate degree from September 2024. There's also [the Liverpool Bursary](#) which is worth £2,000 per year for eligible students.

[Discover our full range of undergraduate scholarships and bursaries](#)

Entry requirements

The qualifications and exam results you'll need to apply for this course.

Your qualification	Requirements About our typical entry requirements
A levels	<p>Typical A level offer ABB</p> <p>Applicants with the Extended Project Qualification (EPQ) are eligible for a reduction in grade requirements. For this course, the offer is BBB with A in the EPQ.</p> <p>You may automatically qualify for reduced entry requirements through our contextual offers scheme.</p> <p>If you don't meet the entry requirements, you may be able to complete a foundation year which would allow you to progress to this course.</p> <p>Available foundation years:</p> <ul style="list-style-type: none">• Biological Sciences (with a Foundation Year) leading to BSc (Hons)
GCSE	4/C in English and 4/C in Mathematics
Subject requirements	<p>Biology and a second science, preferably Chemistry, at A level</p> <p>Also accepted as a second science: Environmental Science, Mathematics, Physics, Geography, Psychology, Geology and Applied Science.</p> <p>For applicants from England, where A levels in Biology, Chemistry or Physics have been taken, we will also require a pass in the Practical Endorsement</p>
BTEC Level 3 National Extended Diploma	<p>D*DD in Applied Science with a selection of preferred units in Biology and Chemistry, to include Distinction in Units 1 and 5 (Principles and Applications of Science I and II).</p> <p>For previous BTEC (QCF) qualification:</p> <p>D*DD in Applied Science with a selection of preferred units in Biology and Chemistry, with at least 120 Level 3 credits at</p>

Your qualification	Requirements About our typical entry requirements
	Distinction. Please note alternative BTEC subjects are not acceptable for this programme.
BTEC Applied Science unit requirements	View the BTEC Applied Science unit requirements.
International Baccalaureate	33 points, including 6 in Higher Level Biology, and 5 in another Higher Level Subject
Irish Leaving Certificate	H1, H2, H2, H2, H3, H3 - including grade H2 in both of Higher Level Biology and Higher Level (second science).
Scottish Higher/Advanced Higher	Not accepted without Advanced Highers at grades ABB
Welsh Baccalaureate Advanced	Accepted at grade B as equivalent to a third non-science A level at grade B.
Access	45 Level 3 credits in graded units in a relevant Diploma, including 30 at Distinction and a further 15 with at least Merit. 15 Distinctions are required in each of Biology and Chemistry. GCSE Mathematics and English grade C/4 also required.
International qualifications	Many countries have a different education system to that of the UK, meaning your qualifications may not meet our entry requirements. Completing your Foundation Certificate, such as that offered by the University of Liverpool International College , means you're guaranteed a place on your chosen course.

ALTERNATIVE ENTRY REQUIREMENTS

- If your qualification isn't listed here, or you're taking a combination of qualifications, [contact us](#) for advice
- [Applications from mature students](#) are welcome.

THE ORIGINAL

REDBRICK