Qualification type
BSc (Hons)

Biomedical Sciences

UCAS code C130

Entry requirements
A level: ABB
Study mode
Full-time
Duration
3 years
Start date and application deadlines

Apply by:
13 January 2027
Starts on:
27 September 2027

About this course

This programme provides a broad-based education in biosciences related to medicine and medical research, and offers great flexibility of module choice so that you can tailor elements of your degree to your own particular interests.

Introduction

This degree will allow you to study from a broad range of modules from medically-relevant disciplines including Cellular and Systems Physiology, Cellular Basis of Health and Disease, and Genetics and Immunology. In addition, you can then tailor your Biomedical Sciences degree with a choice of modules from the Biochemistry, Pharmacology, Cancer Biology, and Microbiology and Infection disciplines. You will also have the opportunity to specialise and carry out your own research project.

We also offer support for making career choices right from the beginning and you will have the opportunity to consider potential career pathways within and outside the field of Biomedical Sciences.

You’ll learn and develop those important transferable skills in communication, team working, project management and computing with practical sessions and group work.

What you'll learn

- Develop practical and theoretical knowledge of the core biomedical sciences disciplines covering elements of both health and disease.
- Develop a range of practical laboratory and research skills commonly used in the Biomedical Sciences.

- Enhance your understanding of contemporary issues, ethical challenges, and professionalism in the sphere of the Biomedical Sciences.
- 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

In this first year, you will commence your transition from learner to student. You'll start by gaining 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 you will discover how to utilise quantitative skills and study techniques. This year allows you to start to see how the biosciences fit together, and importantly where the Biomedical Sciences fits in this awesome jigsaw.

Modules

Compulsory modules	Credits
BIOLOGY CORE CONCEPTS (BIOS101)	30
ORIGINS, SPECIALISATIONS, CHALLENGES AND THERAPEUTICS (BIOS102)	30
INTRODUCTORY PRACTICAL SKILLS IN BIOSCIENCES I (BIOS103)	15
FROM INDIVIDUALS TO ECOSYSTEM (BIOS104)	15
STUDY AND COMMUNICATION SKILLS TUTORIALS (BIOS105)	15
INTRODUCTORY PRACTICAL SKILLS IN BIOSCIENCES 2 (BIOS106)	15

Programme details and modules listed are illustrative only and subject to change. This course has been updated for 2027 entry as part of a review of all our programmes. This review has considered refining study pathways, strengthening links with employers, integrating generative AI, developing students' research skills, and enhancing alignment with our research strengths. Please note, as at all times, the University reserves the right to make reasonable changes, including to content, entry requirements, or fees, or to discontinue programmes. Applicants will be informed of any significant 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 biomedical sciences. You will study in the disciplines of Physiology, Biochemistry, Immunology, and Genetics. In addition, you will start to tailor your degree with optional modules enabling you to follow your interest in Biochemistry, Cancer Biology, Microbiology and Infection, or Pharmacology.

Optional modules

You will choose one practical module from:

- BIOS204: Advanced practical skills in biomolecular and drug interactions.
- BIOS206: Advanced practical skills in microbiology, infection & disease.

and one theory module* from:

- BIOS212: Metabolism (Biochemistry)
- BIOS216: Drug Discovery and Development (Pharmacology)
- BIOS218: Molecular microbiology and therapeutics (Microbiology and infection).

*Your choice of theory module for Year 2 Semester 2, impacts your range of choice of theory modules in Year 3 Semester 1. No more than one module can be chosen from a single discipline across Year 2 and 3. For example, you

cannot choose a Biochemistry module in year 2 and year 3. We must maintain a spread of discipline content for Biomedical Sciences.

Modules

Compulsory modules	Credits
GENETICS & IMMUNOLOGY FOR BIOSCIENCES (BIOS201)	15
INTERMEDIARY PRACTICAL SKILLS IN BIOSCIENCES (BIOS203)	15
ACADEMIC AND PROFESSIONAL SKILLS TUTORIALS (BIOS205)	15
CELLULAR BASIS OF HEALTH AND DISEASE (BIOS209)	15
CHEMISTRY FOR BIOSCIENCES (BIOS215)	15
CELLULAR AND SYSTEMS PHYSIOLOGY (BIOS214)	15

Optional modules	Credits
ADVANCED PRACTICAL SKILLS IN BIOMOLECULAR AND DRUG INTERACTIONS (BIOS204)	15
ADVANCED PRACTICAL SKILLS IN MICROBIOLOGY, INFECTION & DISEASE (BIOS206)	15
METABOLISM (BIOS212)	15
DRUG DISCOVERY AND DEVELOPMENT (BIOS216)	15
MOLECULAR MICROBIOLOGY AND THERAPEUTICS (BIOS218)	15

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▼ Year three

Year three will provide an unparalleled opportunity for you to learn at the cutting edge of biomedical sciences research and be taught by world-leading academics in the subjects of biochemistry, immunology, microbiology, physiology, and pharmacology. You will also have the opportunity to take a physical or virtual placement. Central to this year is the capstone 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.

Optional modules

You will choose two optional modules* from:

- BIOS307: Molecular, Clinical and Translational Cancer (Cancer)
- BIOS309: Molecular Systems Biology (Biochemistry)
- BIOS315: Emerging Therapeutic Modalities (Pharmacology)
- BIOS317: Genomics and evolution of microbes.

*Your choice of theory module for Year 2 Semester 2, impacts your range of choice of theory modules in Year 3 Semester 1. No more than one module can be chosen from a single discipline across Year 2 and 3. For example, you cannot choose a Biochemistry module in year 2 and year 3. We must maintain a spread of discipline content for Biomedical Sciences.

Modules

Compulsory modules	Credits
RESEARCH PROJECT (BIOS301)	30

Compulsory modules	Credits
INTRODUCTION TO THE WORLD OF WORK (BIOS302)	15
RESEARCH METHODS (BIOS303)	15
CONTEMPORARY HEALTH CHALLENGES AND BIOMEDICAL SCIENCES (BIOS310)	15
INFORMATION PROCESSING BY CELL SIGNALLING NETWORKS IN HEALTH AND DISEASE (BIOS331)	15

Optional modules	Credits
MOLECULAR, CLINICAL AND TRANSLATIONAL CANCER (BIOS307)	15
MOLECULAR SYSTEMS BIOLOGY (BIOS309)	15
EMERGING THERAPEUTIC MODALITIES (BIOS315)	15
GENOMICS AND EVOLUTION OF MICROBES (BIOS317)	15

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▼ Teaching and assessment

How you'll learn

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

How you're assessed

Assessed work includes essays, presentations, group work, digital communications, qualitative and experimental reports and formal examinations with results from years two and three contributing to your final degree classification.

Liverpool Learning Framework

At Liverpool, we take a distinctive approach to education through the Liverpool Learning Framework. This means teaching that is engaging, inclusive and designed to help you succeed during your studies and beyond.

You'll develop specialist subject knowledge alongside the skills employers value most, including:

- Digital fluency
- Confidence
- Global citizenship

Our curriculum is characterised by the three Liverpool Hallmarks:

- Research-connected teaching - learning informed by the latest ideas and discoveries
- Active learning - taking part, applying knowledge and learning by doing
- Authentic assessment - assessments designed around real-world tasks and challenges

We also embed key priorities across our curriculum, including AI literacy, employability, and sustainability, helping you prepare for the future and make a positive impact in the world.

We're committed to creating a supportive and inclusive learning environment where every student can thrive.

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Careers and employability

As a biosciences graduate from the University of Liverpool, you will have an excellent set of career options ahead of you. For those committed to a career as a professional scientist, higher degrees (MBiol, MSc, MRes, MPhil or PhD) at the University of Liverpool or elsewhere provide a flexible set of options for further study.

In the public sector, biosciences graduates are in demand in research institutes, government departments, the National Health Service, forensic science and the Environment Agency. Commercial sectors that actively recruit graduates from the biosciences include the pharmaceutical, food, biotechnology, water and agriculture industries.

There is also an increasing demand for life scientists to contribute to the public understanding of science as journalists and information/liaison officers, in view of the ethical and environmental issues that arise, for example, by developments in molecular biology and biotechnology.

A number of routes are available for graduates to enter the teaching profession one of which is taking a postgraduate qualification (PGCE). There are significant financial inducements provided to meet the current demand for science teachers. In addition to all of the opportunities for graduates in general, including careers outside of biology (such as management, accountancy and human resources), where the skills you have obtained in our degree programmes will be of considerable benefit. Our degree programmes are also popular routes to postgraduate Medicine, Dentistry or Veterinary Science.

- Recent employers:
  - AstraZeneca
  - BBC
  - Blue Planet Aquarium
  - Chester Zoo
  - Crown Prosecution Service
  - Eli-Lilly
  - Glaxo SmithKline
  - Home Affairs, Security and
  - International Development
  - United Utilities
  - RSPCA
  - NHS
  - Ministry of Defence
  - Unilever
  - Vodafone
  - Public Health England
  - Red X Pharma
  - Royal Society of Biology
  - The Environment Agency.

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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 - £10,050
Year in industry fee - £2,010
Year abroad fee - £1,508 (applies to year in China)

International fees

Full-time place, per year - £32,000
Year in industry fee - £1,955
Year abroad fee - £16,000 (applies to year in China)

The UK fees shown are for the academic year 2027/28. The international fees shown are for the academic year 2026/27 and will be subject for change for the academic year 2027/28. Please be advised that tuition fees may increase each year for both UK and international students. For UK students, this will be subject to the government's regulated fee limits.

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 paying for your studies.

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. You can find information on the general and subject-specific costs you could expect to incur on our study costs webpage.

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Entry requirements

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

Qualification	Details
A levels	ABB Biology and Chemistry at A level. Applicants with the Extended Project Qualification (EPQ) are eligible for a reduction in grade requirements. For this course, the offer is **BBB** from A levels, with **A** in the EPQ. You may automatically qualify for reduced entry requirements through our contextual offers scheme. Based on your personal circumstances, you may automatically qualify for up to a two-grade reduction in the entry requirements needed for this course. When you apply, we consider a range of factors – such as where you live – to assess if you're eligible for a grade reduction. You don't have to make an application for a grade reduction – we'll do all the work. Find out more about how we make reduced grade offers. 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. Available foundation years: • Biological Sciences (with a Foundation Year) BSc (Hons)
GCSE	4/C in English and 4/C in Mathematics
Subject requirements	For applicants from England: Where a science has been taken at A level (Chemistry, Biology or Physics), a pass in the Science practical of each subject will be required.
BTEC Level 3 National Extended Diploma	D*DD in Applied Science with a selection of preferred units in Biology and Chemistry, to include Distinction in Units 1 or 5 (Principles and Applications of Science I and II). For previous BTEC (QCF) qualification: D*DD in Applied Science with a selection of preferred units in Biology and Chemistry, with at least 120 Level 3 credits at Distinction. Please note alternative BTEC subjects are not acceptable for this programme.
International Baccalaureate	32 points overall with no score less than 4 including 6 in Higher Level Biology and 5 in Higher Level Chemistry or pass the IB Diploma plus 6,5,5 in 3 HL subjects with 6 in Higher Level Biology and 5 in Higher Level Chemistry.
Irish Leaving Certificate	H1, H2, H2, H2, H3, H3
Scottish Higher/Advanced	Not accepted without Advanced Highers at grades ABB

Qualification	Details
Higher	
Welsh Baccalaureate Advanced	B in the Welsh Baccalaureate, plus AB at A level to include Biology at grade A and Chemistry at grade B.
Access	Pass relevant Access to HE Diploma with 45 Level 3 credits with 33 at Distinction and 12 at Merit. 15 Distinctions are required in each of Biology and Chemistry. GCSE Mathematics and English grade C/4 also required.
	Select your country or region to view specific entry requirements.
International qualifications	If you hold a bachelor's degree or equivalent, but don't meet our entry requirements, you could be eligible for a Pre-Master's course. This is offered on campus at the University of Liverpool International College, in partnership with Kaplan International Pathways. It's a specialist preparation course for postgraduate study, and when you pass the Pre-Master's at the required level with good attendance, you're guaranteed entry to a University of Liverpool master's degree.

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.

English language requirements

You'll need to demonstrate competence in the use of English language, unless you're from a majority English speaking country.

We accept a variety of international language tests and country-specific qualifications.

International applicants who do not meet the minimum required standard of English language can complete one of our Pre-Sessional English courses to achieve the required level.

Qualification	Details
IELTS	6.5 overall, with no component below 5.5
TOEFL iBT	If you took a TOEFL test on or before 20 January 2026, you'll need 88 overall, with minimum scores of listening 17, writing 17, reading 17 and speaking 19. If you took a TOEFL test from 21 January 2026 onwards, when a new scoring system was introduced, you'll need 4.5 overall, with 4 or above in all components. TOEFL Home Edition not accepted.
Duolingo English Test	125 overall, with speaking, reading and writing not less than 105, and listening not below 100
Pearson PTE Academic	61 overall, with no component below 59
LanguageCert Academic	70 overall, with no skill below 60
Cambridge IGCSE First Language English 0500	Grade C overall, with a minimum of grade 2 in speaking and listening. Speaking and listening must be separately endorsed on the certificate.
Cambridge IGCSE First Language English 0990	Grade 4 overall, with Merit in speaking and listening
Cambridge IGCSE Second Language English 0510/0511	0510: Grade B overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0511: Grade B overall.
Cambridge IGCSE Second Language English	0993: Grade 6 overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0991: Grade 6 overall.

Qualification	Details
0993/0991	
Cambridge ESOL Level 2/3 Advanced	176 overall, with no paper below 162
International Baccalaureate English A: Literature or Language & Literature	Grade 5 at Standard Level or grade 5 at Higher Level
International Baccalaureate English B	Grade 7 at Standard Level or grade 6 at Higher Level

Pre-sessional English

Do you need to complete a Pre-sessional English course to meet the English language requirements for this course?

The length of Pre-sessional English course you'll need to take depends on your current level of English language ability.

▼ Pre-sessional English in detail

If you don't meet our English language requirements, we can use your most recent IELTS score, or the equivalent score in selected other English language tests, to determine the length of Pre-sessional English course you require.

Use the table below to check the course length you're likely to require for your current English language ability and see whether the course is available on campus or online.

Your most recent IELTS score	Pre-sessional English course length	On campus or online
6.0 overall, with no component below 5.5	6 weeks	On campus or online
5.5 overall, with no more than one component at 5.0	10 weeks	On campus or online
5.5 overall, with no component below 5.0	12 weeks	Online
5.0 overall, with no component below 5.0	20 weeks	On campus
5.0 overall, with no component below 4.5	30 weeks	On campus
4.5 overall, with no more than one component at 4.0	40 weeks	On campus

If you've completed an alternative English language test to IELTS, we may be able to use this to assess your English language ability and determine the Pre-sessional English course length you require.

Please see our guide to Pre-sessional English entry requirements for IELTS 6.5 overall, with no component below 5.5, for further details.

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