

# Pharmacology

 BSc (Hons)

## COURSE DETAILS

- A level requirements: [AAB](#)
- UCAS code: B210
- Study mode: Full-time
- Length: 3 years

## KEY DATES

- Apply by: [29 January 2025](#)
- Starts: 22 September 2025

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## Course overview

Pharmacology is an exciting branch of experimental science in which you'll study how chemical substances interact with our bodies.

## INTRODUCTION

You'll study a broad range of modules including drug discovery and development, the cellular basis of health and disease, translational pharmacology, and advanced pharmacology and therapeutics with 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 pharmacology.

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

- Understand the principles of pharmacology which underpin how medicines are identified and optimised for use in man.
- Develop an appreciation the mechanisms of how different drugs work in treating different clinical conditions.
- Gain an understanding of novel drugs types and advanced drug delivery methods at the cutting edge of pharmacology.
- Work within an authentic scientific research environment with leading researchers in their field.
- 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'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.

### 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.*

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## 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 pharmacology. You will study drug discovery and development, and explore how pharmacological principles underpin the creation of medicines used to treat a wide range of diseases.

### COMPULSORY MODULES

- Genetics, Microbiology & Infection BIOS201
- Intermediary Practical Research Skills for Life Sciences BIOS203
- Practical Skills in Biomolecular and Drug Interactions BIOS204
- Academic & professional skills tutorials BIOS205
- The Cellular Basis of Health & Disease BIOS209
- Chemistry for Life Sciences BIOS215
- Drug Discovery & Development BIOS216
- Further Chemistry for Life Sciences CHEM038

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

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## **YEAR THREE**

Year three will provide an unparalleled opportunity for you to learn at the cutting edge of pharmacological research and be taught by world-leading academics in the subjects of drug safety, personalised medicine and advanced therapeutics. 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
- Translational Pharmacology BIOS313
- Advanced Pharmacology and Therapeutics BIOS315
- Applied Pharmacology BIOS316
- How do cells make decisions? BIOS331

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

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## **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**

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 HALLMARKS**

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.

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# Careers and employability

Employability is embedded into the Pharmacology BSc (Hons) programme and can be the necessary stepping stone into a successful career in many life science sectors in clinical trials, manufacturing, regulatory affairs, intellectual property and scientific writing.

We also offer support for making career choices right from the beginning. In your first year, you will have the opportunity to consider potential career pathways within and outside the field of pharmacology.

Common employers of pharmacology graduates include:

- Pharmaceutical, environmental and biotech industries
- Civil Service
- Department of Health and Social Care
- Intellectual Property Office (IPO)
- National Health Service (NHS)
- Universities

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

*Graduate Outcomes, 2018-19.*

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# Fees and funding

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

## TUITION FEES

<b>UK fees (applies to Channel Islands, Isle of Man and Republic of Ireland)</b>	
Full-time place, per year	£9,250
Year in industry fee	£1,850
Year abroad fee	£1,385

<b>International fees</b>	
Full-time place, per year	£27,200
Year abroad fee	£13,600

*Fees shown are for the academic year 2024/25. Please note that the Year Abroad fee also applies to the Year in China.*

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.](#)

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## 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.

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## **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 [Liverpool Bursary](#), worth up to £2,000 per year for eligible UK students. Or for international students, our [Undergraduate Global Advancement Scholarship](#) offers a tuition fee discount of up to £5,000 for eligible international students starting an undergraduate degree from September 2024.

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

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# Entry requirements

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

Your qualification	Requirements <a href="#">About our typical entry requirements</a>
A levels	<p>Typical A level offer AAB</p> <p>Applicants with the Extended Project Qualification (EPQ) are eligible for a reduction in grade requirements. For this course, the offer is <b>ABB</b> with <b>A</b> in the EPQ.</p> <p>You may automatically qualify for reduced entry requirements through our <a href="#">contextual offers scheme</a>.</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"><li>• <a href="#">Biological Sciences (with a Foundation Year) leading to BSc (Hons)</a></li></ul>
GCSE	4/C in English and 4/C in Mathematics
Subject requirements	<p>Chemistry and a second science, preferably Biology and A level.</p> <p>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.</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 Distinction.</p>



<b>Your qualification</b>	<b>Requirements</b> <a href="#">About our typical entry requirements</a>
	Please note alternative BTEC subjects are not acceptable for this programme.
BTEC Applied Science unit requirements	<a href="#">View the BTEC Applied Science unit requirements.</a>
International Baccalaureate	34 points, including 6 in Higher Level Chemistry, and 5 in another Higher Level science.
Irish Leaving Certificate	H1, H1, H2, H2, H2, H3
Scottish Higher/Advanced Higher	Not accepted without Advanced Highers at grades AAB
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 Chemistry and Biology. 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 <a href="#">University of Liverpool International College</a> , 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.
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**THE ORIGINAL**

**REDBRICK**