

## Pharmacology BSC (Hons)

#### **COURSE DETAILS**

• A level requirements: AAB

UCAS code: B210

• Study mode: Full-time

Length: 3 years

#### **KEY DATES**

Apply by: <u>29 January 2025</u>

• Starts: 22 September 2025

## **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

### **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.

#### **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.

#### 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.

#### **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.

## 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 BIOSCIENCES 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 |
| Year in industry fee  | £1,850 |
| Year abroad fee   | £1,385 |

| International fees        |         |
|---------------------------|---------|
| 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. <u>Learn more about paying for your studies</u>.

#### **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 <u>additional study costs</u> that may apply to this course.

#### **SCHOLARSHIPS AND BURSARIES**

We offer a range of scholarships and bursaries that could help pay your tuition and living expenses.

We've set the country or region your qualifications are from as United Kingdom. <u>Change it</u> here

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#### **RIGBY ENTERPRISE AWARD**

Home students

Are you a UK student with a household income of £25,000 or less? If you've participated in an eligible outreach programme, you could be eligible to apply for a Rigby Enterprise Award worth £5,000 per year for three years of your undergraduate degree.

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#### THE LIVERPOOL BURSARY

• Home students

If you're a UK student joining an undergraduate degree and have a household income below £35,000, you could be eligible for a Liverpool Bursary worth up to £2,000 for each year of undergraduate study.

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#### **ASYLUM SEEKERS SCHOLARSHIP**

o <u>Home students</u>

<u>Apply for an Asylum Seekers Scholarship and you could have your tuition fees paid in full and receive help with study costs. You'll need to have applied for asylum in the UK, or be the dependant of an asylum seeker, and be joining an eligible undergraduate degree.</u>

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#### **CARE LEAVERS' OPPORTUNITY BURSARY**

• Home students

If you've spent 13 or more weeks in Local Authority care since age 14, you could be eligible for a bursary of £3,000 per year of study. You'll need to be a UK student joining an eligible undergraduate degree and be aged 28 or above on 1 September in the year you start.

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#### **COWRIE FOUNDATION SCHOLARSHIP**

Home students

Are you a UK student with a Black African or Caribbean heritage and a household income of £25,000 or less? You could be eligible to apply for a Cowrie Foundation Scholarship worth up to £8,000 for each year of undergraduate study.

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#### **ESTRANGED STUDENTS BURSARY**

Home students

If you're a UK student identified as estranged by Student Finance England (or the equivalent UK funding body), you could be eligible for a bursary of £1,000 for each year of

undergraduate study.

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#### **GENESYS LIFE SCIENCES SCHOLARSHIP**

• Home students

<u>Joining a School of Biosciences degree and have a household income of less than £25,000?</u>
<u>If you're a UK student, you could apply to receive £4,500 per year for three years of your undergraduate course.</u>

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# GRADUATE ASSOCIATION HONG KONG & TUNG UNDERGRADUATE SCHOLARSHIPS

- International students
- Hong Kong

<u>If you're an undergraduate student from Hong Kong who can demonstrate academic excellence, you may be eligible to apply for a scholarship worth £10,000 in partnership with the Tung Foundation.</u>

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#### **NOLAN SCHOLARSHIPS**

• Home students

<u>Do you live in the Liverpool City Region with a household income of £25,000 or less? Did neither of your parents attend University? You could be eligible to apply for a Nolan Scholarship worth £5,000 per year for three years of undergraduate study.</u>

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#### **ROLABOTIC SCHOLARSHIP**

• Home students

Are you a UK student with a household income of £25,000 or less? Did neither of your parents attend University? You could be eligible to apply for a ROLABOTIC Scholarship worth £4,500 for each year of your undergraduate degree.

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#### SPORT LIVERPOOL PERFORMANCE PROGRAMME

Home and international students

<u>Apply to receive tailored training support to enhance your sporting performance. Our athlete support package includes a range of benefits, from bespoke strength and conditioning training to physiotherapy sessions and one-to-one nutritional advice.</u>

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#### TECHNETIX BROADHURST ENGINEERING SCHOLARSHIP

Home students

<u>Joining a degree in the School of Electrical Engineering, Electronics and Computer Science? If you're a UK student with household income below £25,000, you could be eligible to apply for £5,000 a year for three years of study. Two awards will be available per academic year.</u>

#### **UNDERGRADUATE GLOBAL ADVANCEMENT SCHOLARSHIP**

International students

If you're a high-achieving international student starting an undergraduate degree with us from September 2024, you could be eligible to receive a fee discount of up to £5,000. You'll need to achieve grades equivalent to AAA in A levels and be joining a non-clinical degree.

# UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE EXCELLENCE SCHOLARSHIP

• International students

Completed a Foundation Certificate at University of Liverpool International College (UoLIC)? We're offering a £5,000 fee discount off the first year of undergraduate study to some of the highest achieving students joining one of our non-clinical degrees from UoLIC.

UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE FIRST CLASS SCHOLARSHIP

International students

We're offering a £1,000 fee discount for years 2 and 3 of undergraduate study to eligible students progressing from University of Liverpool International College. You'll need to be studying a non-clinical subject and get an average of 70% or above in year 1 of your degree.

UNIVERSITY OF LIVERPOOL INTERNATIONAL COLLEGE IMPACT PROGRESSION SCHOLARSHIPS

• International students

If you're a University of Liverpool International College student awarded a Kaplan Impact Scholarship, we'll also consider you for an Impact Progression Scholarship. If selected, you'll receive a £3,000 fee discount off the first year of your undergraduate degree.

**YOUNG ADULT CARER'S (YAC) BURSARY** 

• Home students

If you're a young adult and a registered carer in the UK, you might be eligible for a £1,000 bursary for each year of study. You'll need to be aged 18-25 on 1 September in the year you start your undergraduate degree.

# **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                                  | Typical A level offer AAB  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.  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) leading to BSc (Hons) |
| GCSE                                      | 4/C in English and 4/C in Mathematics  |
| Subject<br>requirements                   | Chemistry and a second science, preferably Biology and A level. 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<br>Extended Diploma | 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).  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.        |

| Your qualification                           | Requirements  About our typical entry requirements   |
|--|--|
| BTEC Applied<br>Science unit<br>requirements | View the BTEC Applied Science unit requirements.   |
| International<br>Baccalaureate               | 34 points, including 6 in Higher Level Chemistry, and 5 in another Higher Level science.   |
| Irish Leaving<br>Certificate                 | H1, H1, H2, H2, H3   |
| Scottish<br>Higher/Advanced<br>Higher        | Not accepted without Advanced Highers at grades AAB  |
| Welsh<br>Baccalaureate<br>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<br>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 <u>University of Liverpool International College</u> , 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
- <u>Applications from mature students</u> are welcome.



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Generated: 17 Oct 2024, 14:36