



UNIVERSITY OF  
LIVERPOOL

MSc

# Infection and Immunity

**Study mode**

Full-time

**Duration**

12 months

Apply by: **29 August 2025**

Starts on: **22 September 2025**

## About this course

Never before has this area of study been so publicised. The importance of infection and its control, being so visible during the coronavirus pandemic, highlighted the need for scientists who can contribute to infectious disease research from an understanding of epidemiology, to public health measures and how the immune system responds to viruses and vaccines.

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## Introduction

Our Infection and Immunity MSc programme will develop your understanding and skills within infectious disease, immunology, therapeutics and vaccines that connects with world class infection-related research and interfaces with clinical and global health issues.

You will be taught by internationally-renowned infection and health scientists and clinicians in practice, to provide in-depth scientific knowledge and you will receive training for research that can be applied to academic, commercial and healthcare settings.

In addition, you will learn digital, programming and informatic skills that are of increasing importance for research and many employers.

Please note that this programme is suitable for intercalating medical students.

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## What you'll learn

- Develop core skills in critically evaluating issues associated with emerging infectious disease and pandemics
- Statistical techniques in the design of experiments in biological research
- Develop core skills in critically evaluating design and implementation of diagnostics, therapeutics and vaccines
- Theoretical and technical knowledge in sequence analysis, phylogenetics, and the modelling of proteins, and others
- Coding skills to perform tasks in the biological sciences
- Develop principal skills in presenting immunological interactions and responses

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# Course content

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

## Semester one

### Modules

Compulsory modules	Credits
<a href="#"><u>INTRODUCTION TO RESEARCH (LIFE702)</u></a>	30
<a href="#"><u>BIOLOGICAL DATA SKILLS (LIFE707)</u></a>	15
<a href="#"><u>INFORMATICS FOR LIFE SCIENCES (LIFE721)</u></a>	15
<a href="#"><u>CODING FOR LIFE SCIENCES (LIFE733)</u></a>	15
<a href="#"><u>EMERGING INFECTIONS AND PANDEMICS (LIFE751)</u></a>	15

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

## Semester two

### Modules

Compulsory modules	Credits
<a href="#"><u>INTRODUCTION TO RESEARCH (LIFE702)</u></a>	30
<a href="#"><u>IMMUNOLOGY (LIFE728)</u></a>	15

Compulsory modules	Credits
<a href="#"><u>DIAGNOSTICS, THERAPEUTICS AND VACCINES (LIFE732)</u></a>	15

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

## Final project

## Modules

Compulsory modules	Credits
<a href="#"><u>MSC RESEARCH PROJECT (LIFE703)</u></a>	60

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

## Teaching and assessment

### How you'll learn

You will experience a range of teaching and learning methods, including lectures, seminars, workshops, group discussion and e-learning.

Programme modules encourage individual and group work where you will tackle problems by developing ideas and hypotheses, design learning strategies to solve problems, and then analyse and interpret your findings.

Course material is available 24-hours a day on Canvas, our online learning platform. One-to-one meetings with your research supervisor will allow you to discuss science, develop your critical thinking and creativity through an ongoing feedback model.

Your master research project provides a full academic research experience, including the planning, execution and communication of scientific research.

### How you're assessed

Assessment of knowledge and understanding, practical skills and transferrable skills is through a blended mix of coursework that may include practical and project reports,

essays, completion of workbooks, talks, data handling sessions and posters.

All modules will provide you with feedback on your learning progress and allow for adjustment of your learning. Electronic resources available on the University virtual learning environment support learning and teaching.

## 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.

The Liverpool Curriculum framework sets out our distinctive approach to education. Our teaching staff support our students to develop academic knowledge, skills, and understanding alongside our **graduate attributes**:

- Digital fluency
- Confidence
- Global citizenship

Our curriculum is characterised by the three **Liverpool Hallmarks**:

- Research-connected teaching
- Active learning
- Authentic assessment

All this is underpinned by our core value of **inclusivity** and commitment to providing a curriculum that is accessible to all students.

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# Careers and employability

Commercial sectors such as the pharmaceutical, biotechnology and agriculture industries are employers of our graduates, especially with the increase of next-generation sequencing and the corresponding data analysis that is required. Graduates have also developed careers in conservation or qualified to immediately go into industries.

Past graduates of the School of Biosciences have continued their academic careers as research assistants or pursued further study leading to a PhD.

There is also a current demand for science teachers and following the completion of a PGCE, this master's is suitable for those interested in a career in teaching.

In fact, many of our graduates pursue careers in a wide range of fields, including management, where the skills obtained through this degree are of considerable benefit.

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## Career support from day one to graduation and beyond

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### Career planning

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### From education to employment

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### Networking events

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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 – £13,300

### International fees

Full-time place, per year – £28,300

Fees stated are for the 2025–26 academic year.

Tuition fees cover the cost of your teaching and assessment, operating facilities such as libraries, IT equipment, and access to academic and personal support.

- You can [pay your tuition fees in instalments](#).
- All or part of your tuition fees can be [funded by external sponsorship](#).
- International applicants who accept an offer of a place will need to [pay a tuition fee deposit](#).

If you're a UK national, or have settled status in the UK, you may be eligible to apply for a Postgraduate Loan worth up to £12,167 to help with course fees and living costs. [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. This could include buying a laptop, books, or stationery.

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

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# Entry requirements

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

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## Postgraduate entry requirements

We accept a 2:2 honours degree from a UK university, or an equivalent academic qualification from a similar non-UK institution. This degree should be in a Biological Sciences subject or equivalent. Candidates must have a scientific background acceptable to the Programme Director.

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## International qualifications

Select your country or region to view specific entry requirements.

If you hold a bachelor's degree or equivalent, but don't meet our entry requirements, a Pre-Master's can help you gain a place. This specialist preparation course for postgraduate study is offered on campus at the [\*\*University of Liverpool International College\*\*](#), in partnership with Kaplan International Pathways. Although there's no direct Pre-Master's route to this MSc, completing a Pre-Master's pathway can guarantee you a place on many other postgraduate courses at The University of Liverpool.

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## 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.

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## **IELTS**

6.5 overall, with no component below 6.0

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## **TOEFL iBT**

88 overall, with minimum scores of listening 19, writing 19, reading 19 and speaking 20. TOEFL Home Edition not accepted.

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## **Duolingo English Test**

125 overall, with writing not less than 125, speaking and reading not less than 115, and listening not below 110

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## **Pearson PTE Academic**

61 overall, with no component below 59

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## **LanguageCert Academic**

70 overall, with no skill below 65

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## **PSI Skills for English**

B2 Pass with Merit in all bands

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## **INDIA Standard XII**

National Curriculum (CBSE/ISC) – 75% and above in English. Accepted State Boards – 80% and above in English.

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## **WAEC**

C6 or above

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# **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 6.0	6 weeks	On campus
6.0 overall, with no component below 5.5	10 weeks	On campus and online options available
6.0 overall, with no more than one component below 5.5, and no component below 5.0	12 weeks	On campus and online options available
5.5 overall, with no more than one component below 5.5, and no component below 5.0	20 weeks	On campus
5.0 overall, with no more than one component below 5.0, and no component below 4.5	30 weeks	On campus
4.5 overall, with no more than one component below 4.5, and no	40 weeks	On campus

Your most recent IELTS score	Pre-sessional English course length	On campus or online
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component below 4.0

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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 6.0, for further details.

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