UNIVERSITY OF LIVERPOOL

BSc (Hons)

Climate Science

UCAS code F764

Entry requirements	Study mode	Duration
A level: ABB	Full-time	3 years

Apply by: **14 January 2026**
Starts on: **28 September 2026**

About this course

Study Climate Science at Liverpool and learn to understand the fundamental science behind our changing climate. It's a great choice for those looking to take an active role in developing solutions to current and emerging global environmental challenges.

Introduction

You'll study in depth the threats that climate change poses to our earth system, biodiversity and public health, from warming and rising sea levels to habitat and biodiversity loss.

This course aims to provide students with core knowledge on the impact of climate change through modules in ocean sciences, ecology, and physical and human geography. There is a focus on developing problem solving, numerical and practical skills through training in numerical coding, laboratory classes and research-focused projects.

Alongside learning about the fundamentals of climate science, you'll also be introduced to adaptation and mitigation options, and sustainability.

We have strong links with scientists from the National Oceanography Centre in Liverpool, who provide guest lectures and supervision of projects. Our staff contribute

to IPCC reports and the recent COP26 meeting, and provide evidence on how our oceans are responding to climate change to government departments.

A number of the School's degree programmes involve laboratory and field work. Fieldwork is carried out in various locations, ranging from inner city to coastal and mountainous environments. We consider applications from prospective disabled students on the same basis as all other students, and reasonable adjustments will be considered to address barriers to access.

What you'll learn

- Detailed knowledge of the impact of climate change
- Critical thinking
- Teamwork
- Engagement in current debates
- How to undertake research, using the latest techniques and equipment
- How to develop sustainable management plans
- How to study independently

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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

Students are pre-registered for ENVS128. Students wanting a more advanced maths module can switch to ENVS117.

Modules

Compulsory modules	Credits
STUDY SKILLS (MARINE SCIENCE) (ENVS104)	15
CLIMATE, ATMOSPHERE AND OCEANS (ENVS111)	15
MARINE ECOSYSTEMS: DIVERSITY, PROCESSES AND THREATS (ENVS122)	15
THEORY AND LABORATORY EXPERIMENTS IN EARTH SURFACES PROCESSES (ENVS165)	15
ECOLOGY AND CONSERVATION (ENVS157)	15
INTRODUCTION TO CLIMATE CHANGE AND MITIGATION (ENVS189)	15

Optional modules	Credits
ESSENTIAL MATHS (ENVS117)	15
QUANTITATIVE SKILLS FOR ECOLOGY AND MARINE BIOLOGY (ENVS128)	15
LIVING WITH ENVIRONMENTAL CHANGE (ENVS119)	15

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

Year two

Modules

Compulsory modules	Credits
KEY SKILLS FOR ENVIRONMENTAL DATA ANALYSIS (ENVS202)	15
RESEARCH AND CAREER SKILLS (ENVS204)	15
CHANGING ENVIRONMENTS (ENVS214)	15
PLANNING FOR ENVIRONMENTAL SUSTAINABILITY (ENVS218)	15
CLIMATOLOGY (ENVS231)	15
MARINE POLLUTION (ENVS232)	15
OCEANOGRAPHY, PLANKTON AND CLIMATE (ENVS245)	15
GEOMORPHOLOGY: ICE, SEA AND AIR (ENVS252)	15

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

Year three

Modules

Compulsory modules	Credits
POLITICS OF THE ENVIRONMENT (ENVS325)	15
GLACIOLOGY PAST, PRESENT AND FUTURE (ENVS330)	15
OCEAN CARBON AND CLIMATE (ENVS335)	15
CONTEMPORARY ISSUES IN OCEAN AND CLIMATE SCIENCES (ENVS366)	15
CARBON, NUTRIENTS AND CLIMATE CHANGE MITIGATION (ENVS381)	15
INDEPENDENT RESEARCH PROJECT (ENVS306)	30

Optional modules	Credits
ENVIRONMENTAL COMMUNICATION: POLITICS, SCIENCE, ACTIVISM, AND THE MEDIA (COMM304)	15
OCEAN DYNAMICS (ENVS332)	15
COASTAL ENVIRONMENTS: SPATIAL AND TEMPORAL CHANGE (ENVS376)	15
MODELLING ENVIRONMENTAL SYSTEMS (ENVS397)	15

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

Teaching and assessment

How you'll learn

Teaching takes place through lectures, practical sessions, workshops, seminars, tutorials and computer-based learning, with an emphasis on learning through doing.

You will typically receive at least 15 hours of formal teaching each week.

A typical module might involve two or three one-hour lectures each week, and often a three-hour laboratory or computer-based practical as well. Tutorials typically involve groups of 4-7 students meeting with a member of staff at least every two weeks in years one and two. In years three and four, students meet with their project supervisor on a weekly or more frequent basis.

How you're assessed

Assessment matches the learning objectives for each module and may take the form of written exams, coursework submissions in the form of essays, scientific papers, briefing notes or lab notebooks, oral and poster presentations and contributions to group projects. Coursework is designed around the types of problems encountered, and the skills needed, in commercial, research and public sector jobs. There is an emphasis on data analysis and the use of big data towards understanding the global nature of climate change.

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

Climate Science graduates have sound knowledge of the fundamental science behind climate change, skills to detect and monitor change in a range of environments, and insight into sustainability and mitigation strategies. The employability options are extensive.

Many graduates move on to have careers in areas such as:

- Government agencies (Environment Agency, Met Office)
- Environmental consultancy and management
- Climate research
- Accountancy and insurance brokers
- Education
- Renewable energy industries

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Fees and funding

Your tuition fees, how to pay, 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 - £9,535
Year in industry fee - £1,850
Year abroad fee - £1,385 (applies to year in China)

International fees

Full-time place, per year - £28,300
Year in industry fee - £1,850
Year abroad fee - £14,150 (applies to year in China)

Fees are for academic year 2025/26.

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. 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.

A levels

ABB
including two sciences.

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.

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.

T levels

T levels are not currently accepted.

GCSE

4/C in English and 4/C in Mathematics

Subject requirements

Accepted science subjects:
Applied ICT
Biology (and Human Biology)
Chemistry
Computer Science
Economics
Electronics
Environmental Science
Further Mathematics
Geography
Geology

ICT
Life and Health Sciences
Mathematics
Psychology
Physics
Statistics.

For applicants from England: For science A levels that include the separately graded practical endorsement, a "Pass" is required.

BTEC Level 3 Diploma

D*DD in a relevant Diploma

International Baccalaureate

32 points overall and no score less than 4 and including 5 in two HL science subjects , or pass the IB Diploma with 6,5,5 in three Higher Level subjects (including two HL science subjects).

Irish Leaving Certificate

H1, H2, H2, H2, H3, H3 - including H2 or above in two sciences

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Scottish Higher/Advanced Higher

ABB in Advanced Highers, including two science subjects.

Welsh Baccalaureate Advanced

B in the Welsh Baccalaureate, plus AB at A level (in two science subjects).

Access

Pass Access to HE Diploma in a relevant subject with 45 Level 3 credits, with 33 at Distinction (including 15 credits in two different science subjects) and 12 at Merit.

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, 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.

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.

IELTS

6.0 overall, with no component below 5.5

TOEFL iBT

78 overall, with minimum scores of listening 17, writing 17, reading 17 and speaking 19. TOEFL Home Edition not accepted.

Duolingo English Test

115 overall, with speaking, reading and writing not less than 105, and listening not below 100

Pearson PTE Academic

59 overall, with no component below 59

LanguageCert Academic

65 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 C overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0511: Grade C overall.

Cambridge IGCSE Second Language English 0993/0991

0993: Grade 5 overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0991: Grade 5 overall.

Cambridge ESOL Level 2/3 Advanced

169 overall, with no paper below 162

International Baccalaureate English A: Literature or Language & Literature

Grade 4 at Standard Level or grade 4 at Higher Level

International Baccalaureate English B

Grade 6 at Standard Level or grade 5 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
5.5 overall, with no component below 5.5	6 weeks	On campus
5.5 overall, with no component below 5.0	10 weeks	On campus and online options available
5.0 overall, with no component below 5.0	12 weeks	On campus and online options available
5.0 overall, with no component below 4.5	20 weeks	On campus
4.5 overall, with no component below 4.5	30 weeks	On campus
4.0 overall, with no component below 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 6.0 overall, with no component below 5.5, for further details.

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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