Undergraduate Study at Lancaster

Geography, Environmental & Earth Sciences, Biological Sciences, Ecology & Conservation
Have you considered Lancaster?

At Lancaster we run a range of world-class degree schemes in the Natural and Social Sciences that address the physical, chemical, biological and geographical processes that control the Earth’s environment and the social, cultural and political factors which shape our interactions with it.

Whether you are interested in tackling the challenges of global climate change, understanding natural hazards, addressing future food security, or exploring the wonders of the natural world, we have the degree for you.

If you’re studying one of the following subjects, take a look at what we can offer you!

**Biology** Chemistry **Computing**

Environmental Science Geography

Geology **Maths** Statistics

Physics Psychology
**Geography: BSc/MSci degree schemes in Geography and Physical Geography**

### Degrees

- **Geography BSc/MSci**
- **Physical Geography BSc**
- **Geography/North America BSc**
- **Physical Geography/Australasia BSc**

Relevant school subjects at A-level, Highers or IB: Geography, Geology, Maths, Chemistry, Environmental Science, Biology, Physics, Statistics, and many others...

Our typical offers are AAB, with AAA for MSci and Year Abroad schemes.

### Highlights

If you are interested in the major challenges facing the world today, from globalisation and technological change to environmental issues, Geography would be a good choice. Our Geography degrees address both the factors governing the environment and how society interacts with it, while our Physical Geography degrees focus on scientific study of the processes that create our environment. Both degree schemes combine a wide range of lecture courses and fieldwork, provide the opportunity for work placements, and come with the option of spending the second year at a partner university overseas. Our 4-year Geography MSci degree includes professional experience working with a company.

### What You Study

- Geographical Skills and Applications
- Environmental Processes and Systems
- Biogeography and Geomorphology
- Environment and Society
- Earth Surface Processes
- Concepts in Geography
- Glacial Systems
- Environmental Data Visualization
- GIS: Principles and Practice
- Rivers, Lakes and Estuaries
- Communicating Geography
- Enterprise for the Environment
- Environmental Remote Sensing
- Dissertation (Also with Work Placement)

**Typical Field Courses:**

- Water and Environmental Management in a Mediterranean Context (Croatia)
- Geomorphology (Northern Spain)
- Glacier-Landscape Interactions (Iceland)

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**Geography: BA degree schemes in Geography and Human Geography**

### Degrees

- **Geography BA**
- **Human Geography BA**
- **Geography/North America BA**
- **Economics and Geography BA**
- **Modern Languages and Geography BA**

Relevant school subjects at A-level, Highers or IB: Geography, Geology, Maths, Environmental Science, Biology, Statistics, Economics, Law, French, German, Spanish, and many others...

Our typical offers are AAB, with AAA for Year Abroad schemes.

### Highlights

Our Geography BA degree schemes focus on both the factors governing the environment and how society interacts with it. Our Human Geography degree takes a social science approach that allows you to delve deeper into the interactions between society and the environment. We offer a joint Geography degree with Economics, allowing you to focus on topics such as global consumption and sustainable development. We also offer the opportunity to combine Geography with a modern language (French, German or Spanish) in a 4-year BA degree that includes a year in your target country. These degrees combine lecture courses and fieldwork, and provide the opportunity for work placements.

### What You Study

- Geographical Skills and Concepts
- Political Geography
- Cultural Geography
- Geographies of Nature
- Africa: Geographies of Transformation
- Enterprise for the Environment
- Ecosystem Services and Society
- Cities and Globalization
- Geographies of Health
- GIS: Principles and Practice
- Communicating Geography
- Labour in a Globalizing Economy
- Dissertation (Also with Work Placement)

**Typical Field Courses:**

- Water and Environmental Management in a Mediterranean Context (Croatia)
- Conservation and Sustainable Development in the Brazilian Amazon
### Environmental Science: BSc/MSci degree schemes

#### Degrees
- **Environmental Science BSc/MSci**
- **Environmental Science (Study Abroad) BSc/MSci**
- **Environmental Science and Technology BSc/MSci**

#### Highlights
Environmental Science is key to tackling the challenges facing the world today, using physical, chemical, biological and geographical principles to improve our understanding of the Earth and how humans affect it. We place strong emphasis on the scientific principles underpinning how the Earth works. Our degrees combine a wide range of lecture and laboratory courses and fieldwork, provide the opportunity for work placements, and come with options of spending a year abroad. Our Environmental Science and Technology degree combines study of the environment with options from chemistry or engineering to provide a sound foundation for applying your science, and the 4-year MSci option includes professional experience working with a company.

#### What You Study
- Environmental Issues in 21st Century
- Atmosphere, Weather and Climate
- Earth’s Natural Resources
- Environmental Chemistry
- Geophysical Processes
- Catchment Hydrology
- Climate and Society
- Natural Hazards
- Aquatic Biogeochemistry
- Soil Science
- Environmental Radioactivity
- Water Resources Management
- Environmental Remote Sensing
- Enterprise for the Environment
- Dissertation (Also with Work Placement)

#### Typical Field Courses:
- Environmental field course (Lake District)
- Hydrological Processes (Devon)
- Geological Mapping (Mull)

### Earth Science: BSc/MSci degree schemes

#### Degrees
- **Earth and Environmental Science BSc/MSci**
- **Earth and Environmental Science (Study Abroad) BSc/MSci**

#### Highlights
Our Earth and Environmental Science degrees combine study of geological processes with those controlling other parts of the Earth’s surface environment. We have particular expertise in volcanology and glaciology, and provide the opportunity for field courses to Mt. Etna and a year abroad in Iceland. We take full advantage of Lancaster’s location on the edge of the Lake District and Yorkshire Dales to run day trips and residential field courses to explore the diverse geology of the region. As well as lectures, laboratory study and fieldwork, we provide the opportunity for independent dissertation research, work placements, and the chance to spend a year in a partner university abroad.

#### What You Study
- Environmental Issues in 21st Century
- Atmosphere, Weather and Climate
- Earth’s Internal Processes
- Earth Science Field Skills
- Geophysical Techniques
- Catchment Hydrology
- Geological Processes
- Physical Volcanology
- Geological Hazards
- Soil Science
- Isotope Geochemistry
- Earth’s Natural Resources
- Environmental Radioactivity
- Enterprise for the Environment
- Dissertation (Also with Work Placement)

#### Typical Field Courses:
- Environmental field course (Lake District)
- Volcanic Processes (Mt. Etna)
- Hydrological Processes (Devon)
Ecology and Conservation: BSc/MSci degrees in Biology of the Environment

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<th>Degrees</th>
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<tr>
<td>Ecology and Conservation BSc/MSci</td>
<td>Our Ecology and Conservation degrees provide students with the opportunity to link key challenges such as maintaining biodiversity to human use of the environment and human health. Ecology focuses particularly on the interaction between different species on the planet and how these environmental and biotic interactions influence the way that ecosystems function, whereas conservation helps find solutions to the most pressing challenges to maintaining biological diversity. Our Environmental Biology degrees provide students with the opportunity and scientific skills to tackle key global challenges associated with habitat conservation and sustainable ecosystem functioning.</td>
<td>Global Change Biology&lt;br&gt;Conservation in Practice&lt;br&gt;Environmental Physiology&lt;br&gt;Populations to Ecosystems&lt;br&gt;Frontiers in Ecology and Evolution&lt;br&gt;Life in a Changing Environment&lt;br&gt;Ecosystem Services and Society&lt;br&gt;Aquatic Ecology&lt;br&gt;Principles of Biodiversity Conservation&lt;br&gt;Evolutionary Biology&lt;br&gt;Animal Behaviour&lt;br&gt;Sustainable Agriculture&lt;br&gt;Environmental Plant Biology&lt;br&gt;Issues in Conservation Biology&lt;br&gt;Enterprise for the Environment&lt;br&gt;Dissertation (Also with Work Placement)&lt;br&gt;Typical Field Courses: Scotland field course&lt;br&gt;Doñana field course (Spain)</td>
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<tr>
<td>Ecology and Conservation (Study Abroad) BSc</td>
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<td>Environmental Biology BSc/MSci</td>
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Relevant school subjects at A-level, Highers or IB: Biology, Chemistry, Computing, Environmental Science, Geography, Maths, Physics, and many others...

Our typical offers are ABB, with AAB for MSci and Year Abroad schemes.

Biological Sciences: BSc/MSci degrees in Biology

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<td>Biological Sciences BSc/MSci</td>
<td>Our Biological Sciences degrees are aimed at students with a broad interest in life processes, and allow you to tailor your degree to match your interests. We offer a wide choice of modules that span genetics, biomedicine, microbiology, ecology, physiology and conservation. This allows you to develop a broad knowledge of biological processes, but also allows you to specialise in medical or environmental aspects of Biology. These flexible degrees come with options of spending a year studying at a partner university in N. America or Australasia. Our links with external research institutions such as hospitals and industrial laboratories provide the opportunity for work placements to enrich your study experience.</td>
<td>Cell Biology&lt;br&gt;Genetics&lt;br&gt;Biochemistry&lt;br&gt;Anatomy and Tissue Structure&lt;br&gt;Infection and Immunity&lt;br&gt;Biomedicine and Society&lt;br&gt;Global Change Biology&lt;br&gt;Conservation in Practice&lt;br&gt;Environmental Physiology&lt;br&gt;Human Physiology&lt;br&gt;Organic Chemistry&lt;br&gt;Spectroscopy&lt;br&gt;Epidemiology&lt;br&gt;Evolutionary Biology&lt;br&gt;Populations to Ecosystems&lt;br&gt;Principles of Biodiversity Conservation&lt;br&gt;Environmental Plant Biology&lt;br&gt;Research Project&lt;br&gt;Typical Field Courses: Doñana field course (Spain)</td>
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<tr>
<td>Biological Sciences (Study Abroad) BSc</td>
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Relevant school subjects at A-level, Highers or IB: Biology, Chemistry, Computing, Environmental Science, Geography, Maths, Physics, Psychology, and many others...

Our typical offers are AAB, with AAA for MSci and Year Abroad schemes.
Why Lancaster?

Lancaster is one of the top places to study Geography, Biology, Environmental and Earth Science in the UK. We were placed sixth nationally for Geography and Environmental Science in the Guardian 2015 league table, and our Biology courses were placed ninth. The University is in the top 1% of universities worldwide, and regularly features in the top 10 universities in the UK. Our friendly collegiate system provides a welcoming and safe environment for study, and our student accommodation recently retained the title of Best Student Halls in the UK from the National Student Housing Survey for the fourth year running. The natural scenery of the Lake District, Yorkshire Dales and Morecambe Bay are right on our doorstep, while the bright lights of Manchester are within easy reach.

Your degree

All of our degree schemes provide you with a fundamental understanding of your chosen discipline through core modules involving lectures, tutorials, laboratory practicals and fieldwork. We offer optional modules that allow you the flexibility to choose from a wide range of subjects and to tailor your degree to your own interests. A second year dissertation project allows you to undertake independent research in an area that interests you. The structure of our 3-year (BSc/BA) and 4-year (MSci) schemes is shown below.

Year Abroad

The majority of our degree schemes have the option of spending the second year abroad at one of our partner Universities in North America, Australasia or Iceland. After completing this year, students return to the third year of their degree scheme in Lancaster, so studying abroad does not require an additional year. For those who would like to spend a shorter time abroad we offer Erasmus exchanges to partner institutes in Europe, typically in Switzerland, the Netherlands, Croatia or the Czech Republic.

Professional Experience

In addition to our 4-yr MSci schemes in Geography, Environmental Science and Technology and Ecology and Conservation, which come with a dedicated internship programme, all of our degrees offer the opportunity to gain experience working with a company or consultancy through our Dissertation with Work Placement programme.

Where will it take me?

95% of our 2013 graduates were in full employment or further study within 6 months of graduating. Many students go on to professional careers making use of their academic skills with consultancies, government agencies, utility companies, environmental businesses and many other employers. Others choose to continue their studies on one of our world-class postgraduate programmes.

More Information

If you'd like further information about our degree schemes at Lancaster, please see our web pages at: http://www.lancaster.ac.uk/lec/undergraduate/ or email us at: lec.ug@lancaster.ac.uk

Geography Tutor: Dr Duncan Whyatt   Environmental Science Tutor: Dr Ben Surridge   Biology Tutor: Dr Martin McAinsh