Environmental and Earth Sciences
Welcome To Lancaster

Why Study Environmental and Earth Sciences?

Choosing Lancaster means that you will join a department that has been ranked 5th in the UK* and within the top 15% in the world** for environmental and Earth sciences. Our degrees in these areas were also placed joint first in the UK by university students in the 2016 National Student Survey. Lancaster University itself is a top ten UK university and is one of the top in the world. Our degrees focus on understanding the fascinating fields of environmental and Earth sciences, whilst providing you with the skills and experience to follow the 99% of graduates from our programmes across 2012-2015 who were in employment or further graduate-level study six months after completing their degree.

Flexible and Interdisciplinary

You can select from a diverse range of modules from across the University and tailor your degree around your own interests.

Practical Study

We run regular field visits to sites of outstanding natural beauty and scientific interest on our doorstep and overseas.

Business and Industrial Links

Work with external organisations throughout your degree, including as part of your dissertation project.

Quality Teaching

We received the highest possible score of ‘Full Confidence’ in the 2014 University teaching assessment.

Great Career Prospects

99% of our 2012-15 graduates go onto employment or further study within six months.

3rd for World-leading Research

Our research enhances our undergraduate teaching and was ranked 3rd in the UK for its real-world impact in 2014.

* The Guardian University Guide 2018  ** QS World University Rankings 2017
Awareness and concern about major global challenges, including climate change, water and soil pollution, food production and the management of hazards such as flooding or volcanic eruptions, are mounting. The environmental and the Earth sciences uniquely equip you to address such challenges, by applying your understanding and practical experience from across the geological, geographical, physical, chemical, biological and social sciences. For example, to address risks associated with a pollutant it is necessary to understand the chemical, biological and physical processes that lead to its formation and possible destruction, its transport around the Earth and its biological and human health impacts. Our graduates are strongly positioned to deal with this and other key challenges facing society. Our department offered the first environmental science degree in the country in the 1960s. Since then, our staff have helped to shape this rapidly evolving subject, both within the UK and internationally. The environmental and the Earth sciences degrees on offer to you at Lancaster combine a long track record of excellence with new teaching approaches and material, delivered by staff who work at the cutting-edge of these fields.

Our Environmental and Earth Science degree programmes are part of the Lancaster Environment Centre (LEC), an internationally recognised centre for teaching and research related to the environment. Spanning Environmental Science, Geography, Ecology and Biological Sciences, we provide flexibility and choice to students, with a range of optional modules available to you as part of your degree.

Our Enterprise and Business Partnerships team houses over 20 environment-focused businesses. This offers you direct experience of translating research into practical solutions, for example by working in partnership with a business as part of your dissertation project. The Centre for Ecology and Hydrology, a government-funded research institute, is also located within LEC, providing experience of the links between research and the development of policy and practice related to management of the environment.

All of our degree programmes place a strong emphasis on practical learning. In addition to developing laboratory and IT skills, you will also have opportunities to develop your field skills through regular visits to sites including the Lake District, Yorkshire Dales and Morecambe Bay. We also offer optional field courses further afield, such as examining glaciers in Iceland or studying environmental management in Croatia.

5th in the UK for Geography and Environmental Science
The Guardian University Guide 2018

Joint 1st in the UK with 100% of graduates who took part in the survey being satisfied overall with the quality of their course
2016 National Student Survey

Science and the Environment

Our world-leading staff teach:

- Volcanology
- Water quality
- Hydrology and hydrogeology
- Natural resource management
- Atmospheric chemistry
- Oceanography
- Lake and river ecology
- Environmental radioactivity
- Meteorology
- Climatology
- Environmental pollution
- Bioremediation
- Modelling natural and man-made systems
- Ecotoxicology
- Soil science
- Environmental hazards
- Environmental management
- Geochronology
- Tectonics and sedimentation
- Biodiversity conservation
- GIS and remote sensing
- Geophysics
- Glaciology
We are one of the largest collections of environmental researchers in Europe. Our mission is to address today’s key environmental challenges, focusing on research with real impact and that links directly with end-users. This research spans several disciplines including environmental science, Earth science and physical geography. Our staff are leading the international research agenda in several key areas, including understanding volcanic processes and the hazards associated with these processes, tracking the sources and impacts of chemical contaminants in the environment, and understanding the chemistry of the Earth’s atmosphere and future climate scenarios. Our research projects span a variety of geographic areas, from Antarctica to the Tropics and from central London to the deserts of western China. These projects receive funding from the UK Research Councils, DEFRA, the European Union and various other national and international partners.

Teaching, Learning and Support

Teaching and learning
Our degree programmes are highly flexible and adaptable. You have the option of focusing on environmental or Earth science from day one or combining your studies with modules from other subjects, from physics to French. In your first year you can expect around 15 hours of contact time per week, around 7 hours of which will be in lectures. In addition, you will also be taught in smaller tutorial groups and the vast majority of our modules include practical sessions alongside lectures. Practicals can be laboratory classes, computer-modelling sessions or field trips.

You will also take modules that deal with a number of globally-significant environmental challenges, including producing sufficient food for a growing global population, meeting future demands for energy, adapting to floods and droughts and preventing or mitigating pollution of water and soil resources.

Assessment
The assessment process varies across modules, but includes laboratory reports, essays, independent project reports, group presentations, multiple-choice tests and exams. Assessment is an on-going process, rather than being left solely until the end of the degree. This means we are able to offer feedback to you throughout your degree and, equally as importantly, it relieves pressure on you when modules are examined at the end of each year.

Academic support
We are a friendly department and foster a highly supportive learning environment. We also ensure that our students receive the support they need in order to achieve their full academic potential. This includes access to our Student Learning Advisor, who offers workshops and advice on improving your academic skills, and also assigning you an Academic Tutor who you will meet with regularly throughout your degree to discuss your progress, areas in which you might need extra support and any other queries you may want answering.

For further information on our teaching and academic support, please see our website: www.lancaster.ac.uk/env-sci
Facilities

Brand new teaching laboratories

Over £4 million has recently been invested in new teaching laboratories for the Lancaster Environment Centre, which opened in 2015. Spread over two floors in a dedicated building, this new facility is the location for our environmental and Earth sciences laboratory practicals. These practicals will provide you with hands-on experience of analysing soil, water and biological samples in an analytical laboratory. You can also use this laboratory facility during your dissertation project, for example undertaking controlled experiments or processing field samples before analysis.

LEC’s own meteorological station

Lancaster Environment Centre runs the Hazelrigg Meteorological Station, a unique field site and weather station located just one kilometre from the University campus. Hazelrigg is the UK Meteorological Office’s Climatological Station Number 7236, and measurements help the Met Office validate weather forecasts and climate models. Students visit the station on their Atmospheric Science modules, and can volunteer as observers to make the 0900 GMT measurements that contribute to the official record for the Met Office, providing a unique opportunity to learn new, hands-on skills.

For further information about our facilities, please see our website: www.lancaster.ac.uk/lec/about-us/facilities

Research-level field and laboratory facilities

Each of our undergraduates complete a dissertation project in years 2 and 3 of their degrees. This project provides the opportunity to work alongside research projects within the department, often providing our students with direct experience of research-level field and laboratory equipment. For example, LEC houses a wide range of research laboratories containing equipment used to analyse water, soil or biological samples. Our students have the opportunity to gain hands-on experience with cutting-edge analytical equipment, including mass spectrometers and ion chromatographs to analyse the chemical composition of water or soil samples, in-situ fluorimeters to analyse algae living in streams and rivers, or gas chromatographs to analyse greenhouse gases released to the atmospheres.

Visualising flooding using augmented reality

Lancaster Environment Centre has invested in augmented reality tools that help students understand how our mountains control the downslope accumulation of runoff to produce river floods. For example, our augmented reality system enables mountains, rivers and flood detention ponds to be moulded in sand and to be augmented in real-time with rainfall and runoff events simulated on the 3D surfaces. This facility is directly linked to our hydrology teaching and research on flooding. It can show where floods are likely to occur and how we can add detention ponds on farms or in streams to reduce the likelihood of flooding in downstream communities.
Environmental Field Course, Carrock Fell

Enjoy a week with your fellow students in the nearby Lake District and learn a number of important field and lab skills needed to succeed in the Environmental and Earth Sciences. Based at Carrock Fell, you will collect primary data from a disused tungsten mine and analyze and interpret this to assess the present and future impacts this will have on water quality. During the field course you will learn hydrological, geological and surveying skills in the field, whilst also developing your lab skills in relation to water chemistry.

Water and Environmental Management, Croatia

Learn about the challenges of managing the environment, particularly water resources, in the Istrian Peninsula. Based in Croatia, you will study a unique environment which is strongly governed by its position as a transitional zone between humid temperate and desert climates, which makes it particularly sensitive to global climate changes.

Geological Mapping, Isle of Mull

Earth and Environmental Sciences students may study geologic and geomorphologic processes, and Earth science field skills, during our field trip to the Isle of Mull. During this field course you will learn how to collect field data in order to make a geologic map. In addition to becoming familiar with this particular field area, you will also visit some of the oldest rock formations in the UK, which formed during the opening of the Atlantic Ocean, and as such you will be able to understand a wide range of geologic terrains. As part of the module, you will gain excellent practical skills including mapping techniques, how to plot structural data and be able to recall aspects of British geological history.

Glacier Landscape Interactions, Iceland

Experience glacial processes first-hand and their impacts on the dynamic tectonic landscape of Iceland. You will be based in Southern Iceland, where glaciers interact with the volcanic environments of this mid-ocean ridge island, and learn how glaciers interact with the surrounding landscapes. As well as developing your practical field skills, such as observation and recording, mapping geomorphological features and logging of snowpack properties, you will observe the stunning Icelandic scenery and understand how glaciers fit into the broader study of the physical environment.

Investigating Mediterranean Environments, Spain

We visit an area in Spain of steep environmental gradients, ranging from semi-arid conditions along the Mediterranean coast up to the tundra peaks of the Sierra Nevada. You will work in small groups, in doing so gaining experience of designing, implementing and critically evaluating research projects that investigate diverse problems. You will study a number of environmental challenges including sediment transport, biodiversity, landslide activity and altitudinal variations in soils and vegetation.

Volcanic Processes, Mount Etna

Earth and Environmental Science students have the opportunity to visit Europe’s largest active volcano, Mount Etna, and study the complex processes that take place both on the surface and beneath volcanoes. During this intensive week-long field course, you will explore a number of the physical volcanic processes that take place, including lava flow emplacement, explosive events and the evolution of a basaltic volcano. In addition, you will evaluate methods of managing volcanic hazards on heavily populated active volcanoes.

Hydrological Processes, Slapton Ley

Our week-long trip to Slapton Ley in Devon offers a unique opportunity to study an important environmental issue, eutrophication, through field work and laboratory analysis. Based at the Slapton Ley Field Studies Centre, you will study the hydrological processes which govern nitrate eutrophication of a coastal freshwater lake of ecological significance. This field course is co-taught by staff from Natural England, who will lead a field visit on ‘catchment sensitive farming’, which will expand your knowledge of nitrate remediation measures.

Local Field Excursions

Our surroundings allow us to give you regular hands-on experience of a wide range of environmental, ecological and geological situations in the Lake District, Yorkshire Dales, and Morecambe Bay. As part of our modules we offer a number of field excursions around the local area. These include: • Kingsdale, Yorkshire • White Scar Caves • Blackpool Zoo • Heysham Head • Hazelrigg (our weather monitoring station) • Museum of Science and Industry, Manchester • Lancaster Wastewater Treatment Works

The availability of field trips is dependent on your scheme of study. For a complete list of modules available, please take a look at www.lancaster.ac.uk/env-sci
Careers

Our flexible degree programmes are designed to provide you with both the core knowledge required by employers in the environmental and Earth science fields, and the literacy, numeracy, IT, and problem solving skills desired by almost every profession. You can tailor your degree to suit an environment-orientated career if you wish to pursue one, whilst also gaining the flexibility and transferable skills necessary for a career completely outside the environment sector.

With increasing environmental regulation, most employers whose activities have environmental implications employ specialist environmental advisors. The international nature of many environmental issues means that your degree is of relevance worldwide. For example, our graduates moved into careers that include:

- Air quality assessor, international environmental consultancies
- Weather forecaster, The Met Office
- Analytical chemist, analytical laboratory sector
- Graduate management scheme, Scottish Water
- Environmental risk prediction, insurance industry
- Field operations team, The Environment Agency
- Environmental advisor, Local Government

Networking opportunities

From question and answer panel events to careers fairs, we provide you with many opportunities to network with alumni and employers. This includes an annual STEM careers fair, attended by over 60 employers ranging from small and medium enterprises to national organisations.

Work experience

Students have the opportunity to undertake work experience through our Science and Technology Internship Programme. Internships offer you the opportunity to apply your academic knowledge in real-world situations whilst developing a range of transferable skills, such as working as part of a team or managing your time.

Additionally, you could also combine your dissertation project with a work placement. Our in-house Enterprise and Business Partnerships team engages with hundreds of different businesses and organisations and this gives you a fantastic opportunity to research environmental solutions to real-world problems.

Further study

There is a wide range of Masters-level programmes available to you once you graduate. Our Graduate School for the Environment combines our world-class expertise, resources and connections with those of Rothamsted Research and the Centre for Ecology & Hydrology to provide a diverse range of opportunities to continue your studies, or begin your career in academic research.

For more information about our Graduate School for the Environment visit: www.lancaster.ac.uk/gse

Personal Development

We place a great deal of emphasis on developing your career aspirations and preparing you for life after Lancaster.

This is achieved by:

- Providing tutorials and workshops on careers planning and preparation as integral parts of each degree
- Encouraging all of our students to attend a range of degree-specific careers events hosted by Beyond LEC, our department’s careers team
- Providing you with the opportunity to plan and develop your career aspirations with experts from the careers team, plus the opportunity to receive practical advice from Lancaster graduates and industry experts
- Encouraging all students to register for the Lancaster Award, to reward voluntary work and work experience
- Ensuring you are kept fully up to date on opportunities for employment and further study
Our Degree Programmes

Our undergraduate degree programmes offer a complete range of subjects relating to the environmental and Earth sciences, covering both three and four-year options. So, whatever your specific interests, there is a degree programme suitable for you. Even within the individual degrees, optional modules provide a great deal of flexibility in subject content.

The Lancaster Environment Centre offers two main environment-focused degrees:
- **BSc/MSci Environmental Science**
- **BSc/MSci Earth & Environmental Science**

Both of our degrees are also offered with the option to study abroad, where the second year is spent in a partner university in America, Australasia or Iceland (depending on the degree you choose). Importantly, these international options are still three-year (BSc) or four-year (MSci) programmes, with grades from the year abroad counting towards your final degree – so this is not an additional year, but one which offers exciting academic and cultural opportunities within both three-year and four-year schemes. We also offer four-year Master of Science (MSci) programmes, which are extended versions of the BSc programmes that allow Masters-level study of your chosen topics.

Apply only once
If we’re unable to offer you a place on our Study Abroad or MSci degree programmes, we will automatically consider you for our BSc degree programmes. Therefore, if you apply for our Study Abroad or MSci degrees, there is no need to include an application for our BSc degree separately on your UCAS application.

BSc/MSci Degree structure

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Core and optional modules

Research dissertation

Masters-level modules

Year one | Year two | Year three | Year four

BSc/MSci | MSci

Optional modules are available to you from other degree programmes across LEC and the University, including:
- Ecology/Biology, Geography, Engineering, Mathematics, Physics and Chemistry

The availability of optional modules from other subject areas is dependent upon your previous qualifications before arriving at Lancaster and upon your timetable given other module commitments.

Opportunities For Overseas Study

Our three-year BSc and four-year MSci programmes are available with a study abroad option. The year abroad is not an add-on to your degree; it is fully integrated so that you can complete your BSc in just three years or your MSci in four. Students on the study abroad scheme spend their first year in Lancaster, their second at one of our partner universities overseas, and then return to Lancaster for the third and final year of the degree. More than 80% of our exchange students achieve an upper second or first class degree so, in addition to broadening your academic horizons, developing your personal and social skills and providing you with an understanding of another culture and society, the experience may also enhance your job prospects.

Where can you go?
The majority of our partner universities are in North America, located across the United States and Canada. You could spend your second year in Florida, North Carolina, Oregon, Ottawa or Toronto. Alternatively, you also have the opportunity of studying in Australia or New Zealand, including Canberra, Melbourne, Sydney or Wellington. Additionally, if you take either our BSc or MSci Earth and Environmental Science scheme you may also have the opportunity to study in Reykjavik. The choice of destinations and number of places can vary from year-to-year, so although we cannot guarantee that you will be able to go to your first choice, we are sure that wherever you go it will be an experience to remember.

Can I afford it?
Whilst there are clear financial implications in living abroad for a year (and many students take the opportunity to do other travelling while they are abroad), the study abroad scheme does not cost as much as you might think. There is also financial help available in the form of (i) reduced fees to Lancaster University; you will pay just 15%* of the usual tuition fee during the year abroad and there are no fees payable to the overseas institution, (ii) an enhanced student loan, and (iii) a means-tested Government Travel Grant, which usually covers the cost of two return flights plus insurance.

For further information about opportunities to study abroad, including shorter placements in Europe, please see our website: www.lancaster.ac.uk/env-sci/study-abroad

* At the time of publication, 2017, this figure remains to be confirmed for the academic year 2018/19 and may be subject to change.
Environmental Science
BSc and MSci Hons
UCAS Codes: F750 & F850
BSc and MSci Hons (Study Abroad): F754 & F851

Our Environmental Science degree is the longest running programme of its kind in the UK. The programme draws from a wide range of scientific disciplines and covers both natural and man-made environments with the aims of understanding:

- how the environment has evolved to its current state
- the main factors and processes controlling today’s environment
- how environmental conditions may change in the future

You also learn how to apply this knowledge to practical problems, for example in pollution control and hazard mitigation. In common with all our degrees, you will be trained in communication skills, information technology, data handling and environmental sampling and analysis. Considerable weight is placed upon these transferable skills by potential employers.

The Environmental Science degree is suitable for students with a wide range of backgrounds, but at least one A-level science subject is required. We run a range of maths and chemistry modules in the first year to ensure that students without these subjects beyond GCSE have a solid foundation for the rest of the degree. These are user-friendly modules and cover topics on a need-to-know basis.

The degree offers choice and flexibility allowing you to take a wide range of modules or to specialise in a particular area of environmental science that interests you. This specialisation can be advantageous if you want to undertake postgraduate study or are interested in a specific career path. Students taking the four-year MSci option conduct a research dissertation in their fourth year, alongside selecting from a wide range of Masters-level modules.

Key topics that you will cover:

- Global climate change past and future environments: natural and man-made factors affecting climate change; the Greenhouse Effect
- Earth’s surface: the effect of wind, rain, rivers, ice and Man on the landscape
- Earth’s interior: plate tectonics; the Earth’s core and geomagnetism; the formation of ocean basins and continents
- Environmental risk and management: making decisions in an uncertain environment
- Hydrology: the water cycle from clouds through rivers to the oceans, and back again
- Biogeochemistry: how chemical and biological processes govern the flow of matter, energy and chemical elements through the different compartments of the Earth system
- The atmosphere: atmospheric circulation and weather: dispersion of industrial and volcanic plumes into the atmosphere; the Ozone Hole; El Niño
- Predicting the future: introducing the concepts of dynamic modelling of environmental systems such as river catchments at risk from flooding and contamination by pollutants
- Effects of environmental pollution: the behaviour of heavy metals, pesticides and radioactivity in soil, air and water

Modules are subject to change and this list does not guarantee that a specific module will be available.
The Earth & Environmental Science degree focuses on Earth processes and emphasis is placed on fieldwork and hands-on learning. It covers areas as diverse as geological mapping, atmospheric processes and tectonics and sedimentation. This degree draws on the considerable expertise of a number of our staff who specialise in Earth science and includes volcanologists, geophysicists and hydrogeologists. Many of the components of the Environmental Science degree will be open to you, but as you progress into your second and third years you will be able to study specialist Earth science modules. Those continuing on the MSci programme have the opportunity for further, in-depth study in the fourth year, involving a research dissertation project, physical volcanology module and a choice of Masters-level modules across a wide range of subjects.

As part of the Earth & Environmental Science programmes, we run a number of residential field modules. One popular overseas trip is the volcanic processes field module on Mount Etna in Sicily, studying volcanic processes and how the local population can manage the impacts of volcanic phenomena. We take full advantage of Lancaster’s location at the heart of the fells and dales of North West England and hold both day trips and residential field modules in the Lake District and Yorkshire Dales.

Our modules equip you with valuable transferable skills, such as scientific writing, IT and presentation skills. For the Earth sciences, you will also learn computer-based skills, which are central for understanding, predicting and testing geophysical and environmental systems. We run modules in computer-based programming and you can also use specialised modelling software. We also provide you with the skills required for data handling and processing, particularly relevant for the large quantities of digital data generated through satellite imagery for example.

### Modules

#### Year 1, Core
- Global Environmental Challenges
- Environmental Processes and Systems
- Geology
- The Earth’s Interior
- Biogeochemical Cycles
- Hydrological Water in the Environment
- Atmospheric, Weather and Climate
- Natural Hazards

#### Year 2, Core
- Environmental Field Course
- Experimental Design and Analysis
- Geoscience in Practice
- Soil Science
- Aquatic Biogeochemistry
- Geological Mapping Field Course

#### Year 2, Optional
- Catchment Hydrology
- Populations to Ecosystems
- Investigating Mediterranean Environments Field Course
- Atmospheric Science
- Energy, Economy and the Environment
- Introduction to Eco-Innovation
- Principles of Biodiversity Conservation
- Environmental Data Visualisation and Analysis

#### Year 3, Core
- The Dynamic Earth
- Introduction to Geophysical Techniques
- Dissertations Project
- Examples of Options
- Volcanic Processes Field Course
- Hydrological Processes Field Module
- Environmental Magnetism
- Global Change and the Earth System
- Environmental Remote Sensing and Image Processing
- The Causes and Consequences of Environmental Radioactivity
- Water Resource Management
- Geological Hazards
- Climate and Society
- Global Change Biology: Challenges and Solutions
- Energy: Controversies and Decision-making
- Glacial Systems
- Coastal Processes

#### Year 4 (MSci only)
- Physical Volcanology
- Research Dissertation Project
- Examples of Options
- Sustainable Soil Management
- Environmental Aspects of Renewable Energy
- Flood Forecasting and Flood Risk Management
- Groundwater Resources and Protection
- Contamination Land and Remediation
- plus a range of Masters-level modules

Modules are subject to change and this list does not guarantee that a specific module will be available.
Welcome from EnviroSoc

EnviroSoc aims to bring together anyone and everyone studying or interested in environmental issues, so it is a great place to meet not only others on your course but also new people from around the University.

We organise a diverse range of academic and non-academic activities throughout the year giving our members the chance to relax and enjoy themselves and also further develop your interest in environmental and Earth sciences.

One of the highlights of our social calendar is the end of year formal meal and ball, where we team up with the other societies in LEC (EcoSoc and Society of Lancaster University Geography Students) to host this memorable event for all students and staff in the Lancaster Environment Centre.

Examples of previous activities we have held include guest lectures, documentary evenings, academic support and guidance sessions, Green Lancaster action day and trips to the nearby Lake District. We also have an active and varied social calendar, running events throughout the year which are a great way to take a break from your studies!

As a member of EnviroSoc, you will be free to attend as many social events as you wish, making new friends and creating lasting memories of Lancaster.

If you’d like to find out more, take a look at our website: www.lancaster.ac.uk/env-sci/envirosoc

What Do Our Graduates Think?

Kiri Huddleston
MSci Hons Environmental Science, 2014

Kiri was initially attracted to Lancaster due to the fascinating content of our Environmental Science course. “I chose Lancaster because the course sounded the best,” she says. “Initially I was really interested in volcanoes and earthquakes, but also wanted to learn more about how the world works in general, so the course fitted really well. As much as I enjoyed the learning, I really loved hanging out with friends,” she says. “I have so many funny memories of things we did like nights out, trips to Windermere, barbecues, trips to places nearby, Ashton Memorial, fireworks, the canal, playing in a band etc. There were many days of stressing over deadlines and exams, but these are the things I remember looking back, I really felt part of the Lancaster community.”

Nancy Baines
MSci Hons Earth & Environmental Science, 2015

Since graduating in 2015, Nancy has decided to broaden her horizons and gain new experiences by traveling. “I am currently traveling to South America and I am wishing this trip was from the Galapagos Islands,” she says. “I needed a break after studying, and my degree has really made me appreciate the environments I’ve seen. It’s great to see a volcanic crater and understand why it’s there!” Nancy’s interest in travelling has been fuelled by the extensive fieldwork opportunities offered by LEC, as well as the fascinating content of her course. “I found the majority of the content really interesting, but my highlight was the field trips,” she says. “How could you not love being in beautiful places with your friends? Turning 21 on Mount Etna was something I won’t forget in a hurry… the course has helped me better understand the places I am travelling in. The lectures made me want to go and see all those exciting things we learnt about.”

Theo Platts-Dunn
MSci Hons Earth & Environmental Science, 2015

“I remember coming to visit Lancaster on an Open Day and really liking the atmosphere on campus,” he says. “As well as that, I remember being attracted by the breadth of my chosen degree scheme. After sixth form I wasn’t sure which of my interests to follow, so I was pleased when I found that my degree at Lancaster would encompass a large spectrum of modules, from global environmental challenges to the structure of the Earth’s interior.” Theo’s favourite aspects regarding his time studying here were the extensive travelling opportunities within LEC: “The best part of my degree was the variety of field trips and hands-on learning experiences,” he says. “Over the course of four years I’ve visited Spain, Italy, Mull, the Lake District and also took part in an optional overseas trip to Guangzhou in China.”

Andy Payne
MSci Environmental Science, 2016

Andy was initially attracted to Lancaster due to its outstanding reputation, and was impressed by the warm welcome that he received when visiting campus. “The first thing that drew me towards Lancaster was its reputation,” he says. “But it was when I first visited the city and campus that I fell in love with Lancaster and led to me choosing it as my firm choice.” Additionally, Andy greatly appreciated the varied and fascinating nature of his Environmental Science course, relishing the opportunity to pursue a number of his environmental interests. “My favourite part of studying Environmental Science at Lancaster was the flexibility that I was given to study a variety of different modules that I had an interest in,” he says. “Not only did this mean that I enjoyed my studies more, it also meant that I gained a vast array of transferable skills that were paramount in me obtaining a place on a graduate scheme in the business sector.”
Student Life at Lancaster

Lancaster University is diverse, varied, international, exciting and vibrant – you couldn’t ask for a better student experience. We have around 12,000 students and over 2,500 staff from more than 120 countries. All our activities are based on a single campus, just south of Lancaster city centre. You will find shops, banks, a health centre and a Post Office as well as restaurants, fast food outlets and bars. The campus has excellent sporting facilities which include an eight lane 25 metre indoor swimming pool, badminton, squash and tennis courts, a floodlit 3G AstroTurf pitch, weight training and fitness rooms.

The social life of the University revolves around eight undergraduate colleges, each with its own distinct identity. Every student belongs to a college, and each student is allocated a personal tutor. Each college has its own bar, common rooms and residences and are run by elected student committees who organise a programme of social events including Christmas balls, shopping trips, visits to the Lake District and various nearby cities, and post-exam themed parties known as ‘Extrav’. Inter-college rivalry is reflected through a series of annual sporting events throughout the year, and there are numerous other opportunities to be involved in competitive sport.

All students at Lancaster are automatically members of the Lancaster University Students’ Union (LUSU). The Union organises entertainment on campus and at its own nightclub, The Sugarhouse. Known to most students as simply ‘Sugar’ it has two large dancefloors, great drink offers, themed nights and events, and even has free buses back to campus all night. In addition, you can sip on a handcrafted cocktail in places such as Mint or The Apothecary or listen to your favourite dance tunes in the numerous other clubs around Lancaster, including Glow Rooms, Hustle and Bentleys.

Lancaster has a thriving cultural scene, catering for lovers of theatre and the arts. Performances are regularly staged at the Grand Theatre, Dukes Playhouse and Nuffield Theatre (on the University campus), whilst the Storey Institute hosts literary performances, art exhibitions and workshops throughout the year.

You can find out more about Lancaster and the local area at: www.lancaster.ac.uk/explore

Accommodation

Our on campus residences are regularly ranked as amongst the very best in the UK. There are approximately 6,600 single bedrooms, around two thirds of which are ensuite, and all residences have facilities for self-catering. The accommodation rents are all inclusive and include utilities, Wi-Fi access and a cleaning service. All students who choose Lancaster as their firm choice are guaranteed on campus accommodation in their first year and students have the option to remain on campus or in other University owned accommodation in subsequent years if they wish to do so. More info can be found at: www.lancaster.ac.uk/accommodation

By day...

Lancaster, ranked as one of the top ten most vibrant cities in the UK, has all the amenities of a large city without having lost its charm or character. In the city centre you will find many of the major high street retailers plus a number of independent specialist shops nestled alongside museums, a medieval castle, historic parks and monuments. The city centre can be reached in ten minutes by a regular bus service that runs from the University. Lancaster is lucky to be surrounded by some of the most scenic areas of the UK, including the Forest of Bowland, Yorkshire Dales and the Lake District which provide outdoor enthusiasts with a range of superb locations for walking, climbing and water activities. Such areas also make excellent fieldwork sites for our environment-focused degrees. Coastal locations and seaside resorts are also just a short journey away, including Blackpool with its famous Tower, Water Park, Illuminations and Pleasure Beach. For those that enjoy the hustle and bustle of a large city, excellent transport links mean that Manchester and Liverpool can be reached within an hour.

By night...

Lancaster has a large and varied nightlife. For those looking for a cheap drink in a cheerful atmosphere, pubs such as the Crafty Scholar, Wetherspoons or Fibbers will be your first port of call. If you’d rather spend the evening in a pub with a unique character, real ale or craft beers and live music, Lancaster has an abundance of historic pubs waiting to be discovered. Not only do many of these offer great food at student-friendly prices, but Lancaster plays host to a large number of other unique restaurants, cafés and takeaways and most even offer a discount to students! For those who wish to dance the night away, you’ll find many other students in the Students’ Union owned nightclub, The Sugarhouse. Known to most students as simply ‘Sugar’ it has two large dancefloors, great drink offers, themed nights and events, and even has free buses back to campus all night. In addition, you can sip on a handcrafted cocktail in places such as Mint or The Apothecary or listen to your favourite dance tunes in the numerous other clubs around Lancaster, including Glow Rooms, Hustle and Bentleys.

Lancaster has a thriving cultural scene, catering for lovers of theatre and the arts. Performances are regularly staged at the Grand Theatre, Dukes Playhouse and Nuffield Theatre (on the University campus), whilst the Storey Institute hosts literary performances, art exhibitions and workshops throughout the year.

You can find out more about Lancaster and the local area at: www.lancaster.ac.uk/explore
Admissions Information

Typical requirements for entry onto our Environmental and Earth Science degree programmes:

Three Year Programmes
BSc Environmental Science (F750) and BSc Earth & Environmental Science (FF68)
• A-levels: ABB, candidates will normally be expected to have at least one science at A-level
• Scottish Highers: BBBBB
• International Bac: 32 pts overall with 16 from best three HL courses
• BTEC: Overall grades of DDD/DDM with distinctions in 3 modules
• HNC/HND: Pass

Study Abroad and Four Year Programmes
BSc Environmental Science (Study Abroad) (F754), BSc Earth & Environmental Science (Study Abroad) (FF6V) and MSci Environmental Science (F850), MSci Environmental Science (Study Abroad) (F851), MSci Earth & Environmental Science (4R71) and MSci Earth & Environmental Science (Study Abroad) (FF86)
• A-levels: AAB, candidates will normally be expected to have at least one science at A-level
• Scottish Highers: ABBBB
• International Bac: 35 pts overall with 16 from best three HL courses
• BTEC: Overall grades of DDD/DDM with distinction in 9 modules
• HNC/HND: Pass

OpenPlus
If you do not meet these entry requirements you may be able to join the OpenPlus scheme we are running with the Open University (OU). The scheme involves part-time study with the OU, followed by two years' full-time study with us to complete years 2 and 3 of our degree programmes in BSc Environmental Science (F750) or BSc Earth & Environmental Science (FF68).

Applications to OpenPlus are not made through UCAS, but directly through Lancaster and the Open University. Visit: www.open.ac.uk/choose/openplus for more details regarding the OU components of these degrees and how to apply, or contact us at Lancaster.

Applications
Applications for all of our undergraduate degree programmes must be made through the Universities and Colleges Admissions Service (UCAS), using the online service via: www.ucas.com

Mature and Overseas Applicants
We welcome applications from mature or overseas students. Your application will be considered individually on its merits and in relation to the University’s guidance on equivalence to A levels.

Other Qualifications
We welcome applications from students with non-standard qualifications. Mature students should contact us directly to discuss their circumstances. All types of previous training and experience will be taken into account, including Access to Science courses. International students are normally required to have appropriate International Baccalaureate qualifications or equivalent. If in doubt about anything, please get in touch with us.

Bursaries & Scholarships
Our priority is to support every student to make the most of their life and education. We have a package of bursaries, based upon household income, and scholarships, based upon academic performance at A-level, to support students during their time at university.

For up to date details of tuition fees, financial support and further guidance please visit our website: www.lancaster.ac.uk/study/undergraduate/fees-and-funding

At the time of printing, 2017/18 bursaries, scholarships and access agreements remain to be confirmed and may be subject to change.
Approximate Travel Times (By Train)

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Visiting Us

Open Days and Campus Tours

Open Days take place in July and September for anyone thinking of applying to Lancaster. You will experience our vibrant campus and have the freedom to explore our academic departments, colleges and accommodation. You will also have the opportunity to visit Lancaster Environment Centre to see our facilities, experience hands-on demonstrations of our research and teaching and find out more about studying with us from our current students and staff.

In addition to Open Days, we also host regular Campus Tour Extra events (held on Wednesday afternoons throughout the year). These are a great opportunity to find out about studying at Lancaster, tour our 560-acre campus and visit Lancaster Environment Centre to find out more about Environmental and Earth Sciences.

You can book onto Open Days and Campus Tour Extra events at:
www.lancaster.ac.uk/visitus

Applicant Visit Days

If you are offered a place on one of our degree schemes, you’ll be invited to visit us again in February or March. You’ll have the opportunity to tour our accommodation, take part in interactive activities and spend the day with Environmental and Earth Sciences staff and students. Applicant Visit Days are lively and informative events, designed to give you a taste of what it is like to be a student here. Parents are also welcome to attend these events too.

Visiting Us

Lancaster is very well served by road, rail and air networks and is nearby to major cities such as Manchester and Liverpool. More information about visiting the University can be found at:
www.lancaster.ac.uk/contact-and-getting-here

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