warmly welcome your interest and am pleased to provide you with some background to your Environmental Science degree at Manchester.

Our School is home to over 70 academic staff, with a wide range of interdisciplinary skills. They are world leaders in the areas of environmental science and geoscience, ecology, solid earth geoscience, geomicrobiology, molecular geochemistry, mineralogy, atmospheric climate processes and air quality, isotope geochemistry, cosmochemistry, palaeontology, and petroleum geoscience.

Our students value close contact with our staff, who provide a supportive and stimulating learning experience. Should you choose to join us in Manchester, you can expect a degree that offers you excellent practical and theoretical training in all aspects of the discipline. This will provide a structured approach to understanding scientific concepts, building upon core skills to independently analyse challenging problems.

As a geoscientist and environmental scientist myself, I can certainly say that knowledge of how the whole Earth system works and the development of key analytical skills are vital to analyse and interpret complex natural systems, and to address many of the current challenges in the world at the present time. These skills are very much in demand by employers and our close interaction with a wide range of industries has helped us to develop our courses to meet their future needs, providing excellent employment opportunities, whilst also providing you with skills you need to address globally important current and future research challenges.

We look forward to you applying to Manchester to become part of a stimulating learning environment in a leading University. We are lucky to be located in the centre of an exciting international city and I feel sure you will find Manchester a vibrant, multicultural place to study and live.
Environmental Science is the study of how physical, chemical, and biological processes maintain and interact with life, and includes the study of how humans affect nature. The world is becoming more crowded, more consuming, and more connected. Growing populations and higher standards of living put increasing pressure on our environment.

The natural world is complex and human activity can have unexpected consequences that are hard to reverse.

The study of how physical and biological processes maintain life, and how humans affect nature, requires a broad interdisciplinary perspective. This is why the dedicated study of Environmental Science is so important. It is only by understanding how the world works that we can begin to tackle some of our pressing problems. Ensuring that human needs are met in a sustainable way, that everyone has access to clean water, clean air and the resources required for agriculture and industrial activity make up the focus of this three year undergraduate science degree. Key topics include resource recovery and pollution control.

Environmental Science is a broad discipline and we ensure that you acquire the necessary knowledge and skills to appreciate the socio-economic issues related to environmental issues as well as specialist scientific knowledge on geological, biological and chemical processes.

The course is designed to have three fundamental scientific strands (biosciences, geosciences and environmental physics) running continuously through the three years of study, with integrative modules serving to weave these three strands together to give perspective. This allows the student to apply scientific concepts to real environmental problems.

This multidisciplinary, research-informed degree includes course units taught by active researchers across a range of areas, including biology, geography, planning and earth sciences. These are high profile academics whose current research is re-writing the textbooks of yesterday. You will study aspects of climate change, biodiversity and environmental management, pollution and control, population dynamics, ecosystems and urbanisation, and will acquire laboratory and practical analytical skills whilst having frequent opportunities to practice and apply what you learn on field trips in the UK and abroad. Tutorials, project-based learning, teamwork, problem solving and diverse and exciting field courses play a key role in integrating all the elements of the subject, and will develop your transferable skills.

It is rare that a university organises a compulsory field course every year and this has allowed me to really get to know my course mates and work well as a team.

Sarah Perry
BSc Environmental Science

Manchester is a great place to study, it embraces variety and brings people from different backgrounds together.

Astrid Tishler
Senior environmental co-ordinator (EIA) Atkins

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- Options to study abroad
- Subsidised field programme, including a dedicated environmental field course in each of the three years
- Opportunity to interact with students from other disciplines on University-wide course units, such as Sustainability
- Dissertation giving the opportunity to review an environmental problem of your choice in detail
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### Environmental Science (BSc)

In the first year we will introduce you to the laboratory and field skills necessary to take you through your degree. We will provide you with a firm basis in quantitative science and introduce you to earth sciences, biodiversity, and climate change so that you are aware of the scope of the subject and its role in the exploitation and conservation of resources. Field courses teach you to apply what you have learned in the classroom to the real world and to make essential field observations.

In your second year you will take advanced modules related to Earth surface processes, atmospheric physics, and how ecosystems function. You will undertake geophysical surveys and will choose a field of specialisation and execute a detailed assessment of an environmentally stressed location.

The focal point of Year 3 is an in-depth project, in which you will be given the opportunity to demonstrate the ability to carry out a substantial piece of research work independently, supervised by an expert in your chosen subject. This includes access to industry standard state-of-the-art scientific equipment used by professionals in front line research. You will have the opportunity to develop knowledge of special interests and to build upon experience gained in previous years. Along with core modules, in the third year, students are able to choose from a wide range of optional modules in order to develop their career in the direction of their choice. The field course provides an opportunity to study a complete environmental system and is the final integrative step linking all of the different aspects of Earth as a system.

Further information: [http://man.ac.uk/v9Ebbp](http://man.ac.uk/v9Ebbp)

Entry requirements: [http://man.ac.uk/9IABIz](http://man.ac.uk/9IABIz)

### Environmental Science with Industrial Experience (BSc)

Between years 2 and 3 you will undertake an industrial placement with a company of your choice. We will help you identify a suitable host organisation and throughout your placement you will be supported by a member of the academic staff here at the University. Past students have benefited from the experience of a spending a year in industry during their studies by gaining business skills through learning directly which aspects of their career are the most rewarding to them.

Further information: [http://man.ac.uk/f2JFJW](http://man.ac.uk/f2JFJW)

Entry requirements: [http://man.ac.uk/mgD4Zb](http://man.ac.uk/mgD4Zb)

### Environmental Science with a Year Abroad (BSc)

Between years 2 and 3 you will spend a year studying Environmental Science topics at one of our partner universities. You will follow course units that complement those available at Manchester. During this time you will write a reflective journal in which you will document the insights you have gained from both your period of study and from engagement with the citizens of the host country. When you return you will give a seminar to second year students explaining what you have learned from your time abroad.

Further information: [http://man.ac.uk/JHC8Ny](http://man.ac.uk/JHC8Ny)

Entry requirements: [http://man.ac.uk/4o3SJ3](http://man.ac.uk/4o3SJ3)
The great thing about the Environmental Science course is that the content includes topics which cover all scientific disciplines. I don’t believe that any other course could cover such a wide range of topics in such detail. The range of topics covered by the course means that you’re constantly learning and never doing the same thing twice.

Alexandra Cordeaux
BSc Environmental Science

The Environmental Science degree programme is accredited by the prestigious Committee of Heads of Environmental Sciences (CHES). Their committee commented in particular that our courses were “comprehensive programmes, with clear methodological approach”, showed “breadth of generic skills development”, and provided “excellent careers service support”.

Any programme accredited by CHES meets high standards, contain a strong component of practical, field and theoretical activities, and has excellent opportunities for training, work experience and links to the professional environmental sector. This accreditation shows that being part of the Environment Science degree course gives you a thorough, varied and supportive atmosphere, so you can truly realize your potential.

We offer a wide range of Scholarships and bursary schemes to help you join us. Several industrial scholarships are also available once you have started your course. Further details available from: http://man.ac.uk/mKAmO1

Don’t be overwhelmed by the decision you have to make. If you have any questions about the course please do not hesitate to get in touch.

Our typical A-level offer is AAB/ABB, which must include one science subject. Please visit our Apply page to find out how to apply: http://man.ac.uk/892PUq

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Our Environmental Science course combines a strong science base selected by a panel of industrial specialists. It will equip you with the skills to be successful in a wide range of careers and can lead to employment opportunities in the commercial, industrial, government and educational sectors.

There are a wide range of careers that you could choose from. For instance, you might decide to take up a post as an environmental scientist working for government agencies, in a private company engaged in environmental protection, or the assessment of air, land and water contamination. It also provides you with an excellent foundation for postgraduate study in environmental science and related disciplines.

We have close relationships with a number of employers in many areas and are actively targeted by multinational companies. The programme has an industrial advisory board, and several members of staff have past or current industry experience that enriches your experience in lectures. Because of this, our graduates are in demand from a variety of companies that value skills such as teamwork, problem solving, report writing, computer literacy and independence.

The two most valuable outcomes of my year in industry have been self-confidence and an accredited internal auditor qualification with a year of hands-on auditing experience. I am now much more comfortable in a professional setting, working with people I’ve never met and taking on tasks that I have never done before.

Katrina Cullen
BSc Environmental Science with a year in Industry
Industrial Placement: Manchester Airport

The department has a great atmosphere. All of the students get along and socialise. Enjoy your time at Manchester—it’s a great city!

Michael Lawson
Geochemist ExxonMobil

Manchester has given me an opportunity to look at the ethical and humanistic side of environmental problems.

Theo Orjans
BSc Environmental Science

Studying abroad has taught me independence and I learned a lot about myself when living so far away from family and friends. I would recommend everyone to study abroad at some point if they get the opportunity.

Barnaby Chesher
BSc Environmental Science with a year abroad
Placement abroad: University of Sydney, Australia

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BSc Environmental Science

90% of our students are in either full time employment or further education six months after graduation. (KIS data 2017)
This leaflet was printed on June 2017 for the purposes of the 2018 intake. It has therefore been printed in advance of course starting dates. For this reason, information contained within this publication for example, about campus life, may be amended prior to you applying for a place on a course of study. Course entry requirements are listed for the purposes of the 2018 intake only.

Prospective students are therefore reminded that they are responsible for ensuring, prior to applying to study on a course of study at the University of Manchester, that they review up-to-date course information including checking entry requirements, which is available by visiting www.manchester.ac.uk/study/undergraduate/courses and searching for the relevant course.

Further information describing the teaching, examination, assessment and other educational services, offered by the University of Manchester is available from: www.manchester.ac.uk/study/undergraduate