MSc Environmental Management
MSc Environmental Management (Conservation)
MSc Environmental Management (Energy)
MSc Environmental Management (Informatics)
WHY STUDY AN MSc ENVIRONMENTAL MANAGEMENT

Humans depend on the natural environment for food, water, energy and ecosystem services which creates multiple and often conflicting pressures. As environmental managers you will develop the skills needed to evaluate and minimise impacts on natural ecosystems and biodiversity and to determine effective approaches for restoring degraded environments and protecting healthy ones.

ABOUT THE COURSE

Our MSc Environmental Management course was established 30 years ago and is now widely recognised as an international leader in training environmental managers for work in both the public and private sectors.

Students at the University of Stirling seek to understand the fundamental processes driving the evolution and maintenance of biodiversity – from how environments and ecosystems have changed over annual and millennial timescales, to predicting and mitigating the future impacts of anthropogenic change and natural hazards. Staff at Stirling are involved with many international projects around the world, including in Malaysia, Botswana, Nigeria, Iceland, Norway, Greenland, Ukraine, Hungary and China.

Our Masters degrees provide a solid grounding in the scientific principles that underpin environmental management. We cover topics including ecological, economic, social, political and legal aspects of environmental management, and give comprehensive training in quantitative, theoretical, analytical and practical skills.

Having learned how to collect data, you’ll be taught how to analyse, report and present data through the modules, Analysis of Environmental Data (using R), GIS and Remote Sensing. You’ll gain the transferable skills often required within environmental agencies/consultancies, including the ability to translate theory into practice, to work in a team and independently, to plan and coordinate research, and to engage with a variety of different users.

Our course will give you:

• an understanding of the scientific principles that underpin environmental management
• an understanding of the economic, social, political and legal frameworks for environmental management
• a sound training in relevant practical, investigative, research and generic skills that are the most sought after by employers

PATHWAYS

You can work towards our core Masters degree, the MSc Environmental Management, or opt to specialise in one of the following pathways of study:

• MSc Environmental Management (Conservation)
• MSc Environmental Management (Energy)
• MSc Environmental Management (Informatics)
WHY STUDY AN MSc ENVIRONMENTAL MANAGEMENT (CONSERVATION)

You’ll get the opportunity to specialise in particular areas with the selection of relevant modules and in your research project.

Areas of potential specialisation include:
• ecosystem services
• environmental economics
• conservation conflicts

• habitat and biodiversity management
• application of geographic information systems (GIS) and remote sensing

You’ll get plenty of practice in environmental conservation and management field skills, as there’s a compulsory residential field trip which takes place in the Cairngorm National Park. We also offer a two week field course on tropical ecology and conservation in Gabon.

WHY STUDY AN MSc ENVIRONMENTAL MANAGEMENT (ENERGY)

Britain seeks to be a world leader in renewable energies and its generating potential is recognised globally, but it is equally renowned for the quality of its natural environment.

This creates the potential for conflict and a need to better understand the various environmental costs associated with 21st-century energy technologies, whether renewable or non-renewable and how these costs can be evaluated, managed and mitigated.

The course draws on our existing expertise and research strengths in:
• environmental impact assessment
• carbon trading
• planning and impacts of wind, hydro and nuclear power
• energy management and environmental economics and China.

WHY STUDY AN MSc ENVIRONMENTAL MANAGEMENT (INFORMATICS)

Data science skills are increasingly sought after in the environmental sector as the volume and complexity of data that scientists and practitioners have to grapple with increases in response to the growing use of new and emerging tools such as eDNA, distributed sensor networks and Earth observation satellites.

However, few graduates currently possess the necessary data science skills to be able to manage, manipulate and analyse large multifaceted datasets in combination with a grounding in environmental sciences to be able to subsequently interpret these data and use them appropriately to inform management and policy. This course will be taught between Biological and Environmental Science and Computing Science and Mathematics departments and will aim to quip you with the right skills to fill this gap in the industry.
Five Reasons
YOU SHOULD CHOOSE THIS COURSE

1. Flexible learning
Choose from three pathways to tailor your degree to your interests

2. Environmental expertise
The University of Stirling is a hub for conservation activity in Scotland

3. Practical residential experience
Go on a six-day residential course and immediately begin to learn practical skills

4. Industry links
Benefit from our strong links with a variety of relevant organisations including SEPA, Environment Agency, the nuclear industry, Scottish Coal and Scottish Renewables

5. Placement opportunities
Opportunities for work-based placements in the energy sector

FOR MORE INFO ABOUT SCHOLARSHIPS AND FUNDING VISIT:
stir.ac.uk/1j5
**COURSE STRUCTURE AND CONTENT**

**MSc Environmental Management**
Students choose three of these modules in the autumn:
- Analysis of Environmental Data
- Environmental Policy and Management
- Environmental Economics
- Field Techniques
- Fundamentals of Remote Sensing

Students choose three of these modules in the spring:
- Geomatics
- Biodiversity and Ecosystem Services
- Environmental Impact Assessment
- Environmental Costs of Energy Production
- Tropical Ecology and Conservation
- Applications in Earth Observation
- Environmental Law

**MSc Environmental Management (Conservation)**
Students choose three of the following modules in the autumn:
- Analysis of Environmental Data
- Environmental Policy and Management
- Environmental Economics
- Field Techniques
- Fundamentals of Remote Sensing

Students choose three of the following modules in the spring:
- Geomatics
- Biodiversity and Ecosystem Services
- Environmental Impact Assessment
- Environmental Costs of Energy Production
- Tropical Ecology and Conservation
- Applications in Earth Observation
- Environmental Law

**MSc Environmental Management (Energy)**
Students choose three of the following modules in the autumn:
- Analysis of Environmental Data
- Environmental Policy and Management
- Environmental Economics
- Field Techniques
- Fundamentals of Remote Sensing

Students choose three of the following modules in the spring:
- Geomatics
- Biodiversity and Ecosystem Services
- Environmental Impact Assessment
- Environmental Costs of Energy Production
- Applications in Earth Observation
- Environmental Law
- Tropical Ecology and Conservation

**MSc Environmental Management (Informatics)**
In the autumn students take one from the following two modules:
- Environmental Policy
- Environmental Economics

Plus two from the following:
- Representing and Manipulating Data
- Relational and non-Relational Databases
- Analysis of Environmental Data

In the spring students take Biodiversity and Ecosystem Services plus two of the following modules:
- Data Analytics
- Cluster Computing
- Geomatics
CAREER OPPORTUNITIES

Students on our courses have an excellent record in gaining employment in the environmental sector and many of our former graduates now hold senior positions. Typical jobs include: Environmental Consultant (e.g. Jacobs), Environmental Protection Officers and Scientific Advisers in environment agencies (EA, SEPA), Environmental Managers within local authorities, national industries (e.g. Northumbrian Water) and trusts (e.g. Tweed Forum).

ENTRY REQUIREMENTS

A minimum of a second class Honours degree (2:1 preferred) or equivalent in a relevant subject is normally required. If you have a 2:1 or a first class Honours degree in another discipline and significant relevant work and life experience we still encourage you to apply.

ENGLISH REQUIREMENTS

If English is not your first language you must have one of the following qualifications as evidence of your English language skills: IELTS: 6.0 with 5.5 minimum in each skill If you don’t meet the required score you may be able to register for one of our presessional English courses.

SCHOLARSHIPS

There are a number of scholarships available to support your studies. You may qualify for University funding as well as funding from governmental bodies, the European Commission, funding trusts, research councils, employers and industry. Scholarships finder: stir.ac.uk/scholarships

CONTACT INFORMATION

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