



✦ **Environmental Sciences** Brochure Update from 2012 entry



New Information for Environmental Sciences

This insert contains information about an exciting new course offered by the School of Environmental Sciences: Environmental Geography and Climate Change. This programme is available as a BSc and MSci. For more information about MSci courses, see pages 12 to 15 in the brochure.

Also contained in this insert are updated Admissions Requirements for all courses from 2012 entry. This information directly replaces the tables on pages 8, 9, 36 and 37 of the brochure.

If you have any queries about the information in this leaflet, email us at env.ug.admiss@uea.ac.uk



✦ Environmental Geography and Climate Change

BSc Environmental Geography
& Climate Change
F813 / 3 years / AAA

BSc Environmental Geography
& Climate Change with a year in Industry
F814 / 4 years / AAA

MSci Environmental Geography
& Climate Change
F812 / 4 years / AAA
See page 12 of brochure

This new undergraduate degree programme offers you the chance to study climate change from a unique multi-disciplinary perspective in one of the world's leading university departments for the study of climate change and taught by world-leading experts. You can study for a 3-year BSc degree, or a 4-year BSc (with a year in industry) or MSci degree (see page 12 for details). An undergraduate programme on climate change from such a strong multi-disciplinary perspective has not before been offered in the UK.

There is a pressing need for people who understand both the environmental and social complexities of climate change. This degree programme uses the insights, methods and skills of environmental geography and environmental social science to study the historical, environmental, social, economic and political dimensions of climate change. The programme allows students to understand the natural and human drivers of climate change and the varied responses of individuals and societies around the world to the challenges climate change raises. Although the emphasis is on the human dimensions of climate change, a solid grounding in the natural sciences is also an integral part of the degree programme.

In the first year, students take a holistic view of the Earth system and humanity's place within it with a compulsory set of introductory modules. In the second year, students on this degree programme concentrate on subjects which give them the interdisciplinary framework for understanding climate change and its interactions with society. The modules Climate Change: Science and Policy and Environmental Politics give students wider perspectives from which to understand contemporary concerns about climate change. Students also take the research skills module Research Skills for Social Scientists and select another three modules from a recommended list including: environmental history, low carbon and fossil energy, environmental health, ecology, meteorology and hydrology. In the third year, the module Human Geography of Climate Change uses geographical, sociological, psychological and environmental ethics perspectives to explain how the idea of climate change is perceived and understood across societies, while Global Environmental Change requires students to work in groups to study and present a specific global change topic. Optional modules at this level include: climate reconstruction, environmental economics, climate change science, biological conservation, science communication, environmental decision-making.

Please note that the course profiles listed are examples only and may be subject to change at any time.

Projects and Seminars

Students undertake an Independent Project in their third year. Guided by a member of Faculty you will be able to complete your own project on a topic relating to your own interests in climate change. Illustrative topics might be: Why do people perceive the risks of climate change differently? How can Pacific islands adapt to sea-level rise? Are there technological solutions to climate change? Why are there controversies about climate change science? Why has negotiating global climate treaties been so difficult? Have the media made it easier or harder for people to understand climate change? Also in the third year, project based seminars will cover topics such as the role of newspapers, films and books in communicating climate change, the ethics of geoengineering and how different societies adapt to climate change.

Careers

Graduates of this degree programme are likely to enter a wide range of organisations, such as central, regional, devolved and local government authorities in the UK, as well as environmental consultancies, NGOs and other civil society organisations, including non-departmental public bodies, such as the Environment Agency. Many larger private business now also recruit expertise in the climate change area and the graduates from this programme would find possible employment here too. The degree will be used by others as a research-oriented social science degree to access numerous graduate career and doctoral training opportunities.



Example Course Modules for Environmental Geography and Climate Change

Year One

Core

Global Environmental Challenges
Sustainability and Society
Atmosphere and Ocean

Dynamic Earth
Earth's Chemical Processes
Forces of Nature
Biodiversity in a Changing World
Numerical Skills for Scientists
Research and Field Skills

Year Two

Core

Climate Change: science and policy
Environmental Politics and Policy-making
Research Skills for Social Scientists

Optional

Environmental Epidemiology
Fossil Fuels

Introduction to History and the Environment
Interactions and Populations
GIS Skills for Dissertations
Hydrology and Hydrogeology
Meteorology I
Meteorology II (w or w/o fieldcourse)
Low Carbon Energy (w or w/o fieldcourse)
Earth Science (Field) Skills
Environmental Analytical Chemistry

Final Year

Core

The Human Geography of Climate Change
Global Environmental Change
Independent Project

Optional

Participatory Environmental Decision-Making
Biodiversity, Conservation & Human Society

Natural Resources & Environmental Economics
Science Communication
Climatic Change: Physical Science Basis
Climatic Change Reconstruction and Projection
The Carbon Cycle and Climate Change
Catchment Water Resources
Palaeoclimatology

Essential admissions information

What qualifications are we looking for?

All our degree programmes are science based. Therefore we ask our applicants to have at least one science based A2-level or equivalent. Examples include:

- Biology • Chemistry • Economics • Environmental Science
- Geography • Geology • Mathematics • Physics

We expect applicants to have three A2-levels or equivalent (excluding General Studies and Critical Thinking).

Additional relevant AS-levels will be taken into account. GCSE Maths and English Language at Grade C or above are also required. We may seek an interview with students who apply with non-science A2-levels. We encourage applicants with an Access to HE Diploma or alternative qualifications to apply. If you are in doubt as to whether your qualifications are suitable or not, please contact the Faculty of Science Admissions Office. All applicants to whom we make an offer are invited to attend one of our Visit Days.

Typical admissions requirements

Course titles	Qualification	Level required
BSc Environmental Sciences (F900)	A2-levels	ABB
BSc Environmental Sciences with a year in Industry (F850)	Scottish Highers	AAABB
BSc Climate Science (F762)	Irish Leaving Certificate	AAABB
BSc Climate Science with a year in Industry (F764)	International Baccalaureate	32 points overall inc. 3 HL subjects at Grade 5
BSc Environmental Earth Sciences (F630)	European Baccalaureate	75% overall
BSc Environmental Earth Sciences with a year in Industry (F645)		
BSc Environmental Geophysics (F663)		
BSc Environmental Geophysics with a year in Industry (F660)		
BSc Meteorology and Oceanography (FF97)		
BSc Meteorology and Oceanography with a year in Industry (FF87)		
BSc Environmental Sciences with a year in Europe (F902)	A2-levels	ABB
BSc Environmental Earth Sciences with a year in Europe (F643)	Scottish Highers	AAABB
BSc Environmental Geophysics with a year in Europe (F664)	Irish Leaving Certificate	AAABB
BSc Meteorology and Oceanography with a year in Europe (FFX7)	International Baccalaureate	32 points overall inc. 2 HL subjects at Grade 6
	European Baccalaureate	75% overall

Course titles	Qualification	Level required
BSc Environmental Sciences with a year in North America/Australasia (F901/F854)	A2-levels	AAA
BSc Environmental Earth Sciences with a year in North America/Australasia (F644/F646)	Scottish Highers	AAAAA
BSc Environmental Geophysics with a year in North America/Australasia (F665/F662)	Irish Leaving Certificate	AAAAA
BSc Meteorology and Oceanography with a year in North America/ Australasia (FFY7/FF8R)	International Baccalaureate	34 points overall inc. 3 HL subjects at Grade 6
BSc Climate Science with a year in North America/ Australasia (F765/F763)	European Baccalaureate	85% overall
BSc Environmental Geography and International Development (FL87)		
BSc Environmental Geography and Climate Change (F813)/ with a year in Industry (F814)		
BSc Environmental Chemistry (FF19)	A2-levels	BBB
	Scottish Highers	AAABB plus Advanced Higher grade B in Chemistry
	International Baccalaureate	31 points overall inc. 3 HL subjects at Grade 5 (to include Chemistry)
	European Baccalaureate	70% overall
MSci Environmental Science (F750)	A2-levels	AAA
MSci Climate Science (F760)	Scottish Highers	AAAAA
MSci Environmental Earth Science (F647)	Irish Leaving Certificate	AAAAA
MSci Environmental Geography and Climate Change (F812)	International Baccalaureate	34 points overall inc. 3 HL subjects at Grade 6
MSci Environmental Geophysics (F661)	European Baccalaureate	85% overall
MSci Meteorology and Oceanography (F790)		

Important notes

Applicants applying for any of the Environmental Geophysics, or Meteorology and Oceanography programmes MUST have an A2-level in Mathematics or equivalent. Science Access Courses, BTECs/GNVQs, OU Foundation Courses and International examination passes are welcomed but must include a high element of Mathematics equivalent to A2-level grades as above.

Applicants applying for any of the Climate Science programmes MUST have AS-level Mathematics at grade C or equivalent.

Applicants applying for the BSc Environmental Chemistry MUST have an A2-level in Chemistry or equivalent.

Applicants applying for any of the Year in Europe programmes will need to have GCSE B or above in a modern language.

Admissions requirements are always subject to change and can vary slightly from year to year.

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