Ecology, biodiversity, wildlife management and conservation

We offer four integrated postgraduate degrees within the School of Natural and Environmental Science on the following programmes:

- Computational Ecology MSc
- Ecology and Wildlife Conservation MSc
- Global Wildlife Science and Policy MSc
- Wildlife Management MSc

A common set of three taught modules are taken by students on all four degrees, plus a research project, and each degree programme also contains its own specific set of additional modules. The degrees are led by staff in the Modelling, Evidence & Policy Research Group.

Computational Ecology MSc

This course addresses the severe shortage of scientists trained to a high standard in both data modelling and ecology. Ecological and environmental scientists now generate large amounts of observational data, e.g. from camera traps, GPS, epidemiology and eDNA samples. You will gain hands-on experience of using modern computing and modelling methods. This will develop your essential technical skills, which are in demand by employers.

https://www.ncl.ac.uk/postgraduate/courses/degrees/computational-ecology-msc/

Ecology, biodiversity, wildlife management and conservation

Ecology and Wildlife Conservation MSc

Our Ecology and Wildlife Conservation MSc gives you the skills needed for a successful career as an ecologist or in an environmentally-related field. You will gain the knowledge and skills you need to work in an environmental or ecological role. You will study an area of ecological science, such as wildlife conservation policy and practice, environmental impacts, and sustainable development. This course has a professional focus, which will help prepare you for the workplace.

https://www.ncl.ac.uk/postgraduate/courses/degrees/ecology-wildlife-conservation-msc/

Global Wildlife Science and Policy MSc

This programme allows you to develop skills to work at the interface of science and policy, understand how wildlife-related research can influence policies, and gives you the opportunity to take part in projects with notable wildlife organisations. It has a professional focus that prepares you for the workplace and help you into a career in global organisations such as the Intergovernmental science-policy Platform on Biodiversity Ecosystems Services (IPBES).

https://www.ncl.ac.uk/postgraduate/courses/degrees/global-wildlife-science-policy-msc/

Wildlife Management MSc

Our course provides a link between the theory and practice of wildlife management. We teach from the

perspective of regulatory authorities associated with UK wildlife management. You will receive advanced training in policy and science implementation. It is professionally focused and relevant to a range of roles in the sector. The degree aims to provide graduates with advanced knowledge of wildlife management theory, the principles of biodiversity and conservation, epidemiology and wildlife conflicts. It also provides practical and field skills in wildlife and environmental data collection, data analysis, data handling, statistics and modelling methodologies with a focus on providing evidence for policy.

https://www.ncl.ac.uk/postgraduate/courses/degrees/wildlife-management-msc/

Common modules

Students on all four degrees take the following modules:

- NES8010 Quantitative Ecological Research Methods
- BIO8069 Geographic Information Systems and Remote Sensing
- BIO8072 Dynamics of Coupled-Human and Natural Systems
- NES8002 Research Dissertation Project

Degree-specific modules

Additional modules are available, the choice dependent on the degree programme, as detailed below:

Ecology, biodiversity, wildlife management and conservation

Module codes and titles	Computational Ecology	Ecology and Wildlife Conservation	Global Wildlife Science and Policy	Wildlife Management
BIO8046 Applied Bioinformatics	X			
BIO8054 Management of Wildlife Disease and Epidemiology	X		X	X
BIO8063 Invasive Species	X		X	X
BIO8068 Management and Visualisation of Data in Ecology	X			
BIO8070 Meta-analysis and Decision Support for Ecology and Conservation	X		X	
ACE8016 Environment and Habitat Assessment Field Class		X		
BIO8064 Wildlife Conflicts and Management		X	X	X
BIO8066 Evidence for Policy and Licensing		X		X
SPG8013 Environmental Impact Assessment		X		
BIO8071 Molecular Evolution and Phylogenetics	X			
BIO8062 Global Species Conservation Principles and Practice			X	X
BIO8067 Wildlife Research in Practice				X
BIO8073 Global assessments for policy support			X	

Stay in touch

snes.programme.enquires@ncl.ac.uk @ModEviPol

www.ncl.ac.uk/nes

www.ncl.ac.uk/nes/research/biology/modelling-evidence-policy