

Environmental Biology

CAO code: DN200 Option: Biological, Biomedical and Biomolecular Science (BBB)



Rare Festoon butterfly taken on a third year field trip to Spain.
Image by Dr Tasman Crowe © UCD

- Learn how environmental biology is central to our ability to understand and manage the world's environmental problems
- Develop practical skills in field-based sampling of plants and animals in their natural environments in Ireland, Spain and Costa Rica

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Science at UCD was my top choice. I knew then that I was interested in biology, chemistry and environmental science. After graduating with a BSc in Environmental Biology from UCD, I obtained a PhD position in the Department of Microbiology at Cornell University, USA. Currently I am working on my thesis, which focuses on the molecular interactions between fungi and bacteria.

Olga Lastovetsky, Graduate

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Sample pathway for a degree in Environmental Biology *

YEAR
1

ENGAGE WITH THE PRINCIPLES

BIOLOGY

Topics include:

- ▶ Biology in Action
- ▶ Life on Earth
- ▶ Cell Biology & Genetics
- ▶ Biomedical Sciences

CHEMISTRY

Topics include:

- ▶ The Basis of Organic and Biological Chemistry

MATHEMATICS

Topics include:

- ▶ Mathematics for the Biological & Chemical Sciences

- ▶ Two Elective modules
- ▶ One Small-Group Project

YEAR
2

CHOOSE YOUR SUBJECTS

ENVIRONMENTAL BIOLOGY

Topics include:

- ▶ Principles of Environmental Biology and Ecology
- ▶ Biological Systems
- ▶ Evolutionary Biology
- ▶ Microbial Interactions
- ▶ Global Environmental Change
- ▶ Forests, Climate and Carbon
- ▶ Applied Plant Biology

ZOOLOGY

Topics include:

- ▶ Principles of Zoology
- ▶ Animal Behaviour
- ▶ Molecular Genetics and Biotechnology

PLANT BIOLOGY

Topics include:

- ▶ Principles of Plant Biology and Biotechnology

- ▶ Two Elective modules

YEAR
3

FOCUS ON YOUR CHOSEN SUBJECT

ENVIRONMENTAL BIOLOGY – Topics include:

- ▶ Systems Ecology
- ▶ Biogeography and Field Biology
- ▶ Diversity of Vertebrates

- ▶ Diversity of Plant Form & Function
- ▶ Ecology & Environmental Microbiology
- ▶ Wildlife and Fisheries Management

- ▶ Two Elective modules

YEAR
4

REFINE YOUR KNOWLEDGE

ENVIRONMENTAL BIOLOGY – Topics include:

- ▶ Environmental Biology Research Project
- ▶ Marine Community Ecology
- ▶ Bioassessment of Freshwaters
- ▶ Biological Invasions

- ▶ Insect-Plant Interactions
- ▶ Ecological Modelling and QGIS
- ▶ Biodiversity
- ▶ Foodborne Pathogens

- ▶ Tropical Field Ecology
- ▶ Environmental Impact Assessment
- ▶ Peatlands and Environmental Change

BSc (Honours) Environmental Biology

MSc (Taught)

- ▶ MSc Applied Environmental Science
- ▶ MSc World Heritage Management
- ▶ MSc Plant Biology & Biotechnology

PhD

- ▶ Students can pursue a PhD in universities in Ireland or abroad in areas such as ecology, microbiology, fisheries, conservation biology, environmental management and global change

Industry

- ▶ National Parks and Wildlife Services
- ▶ Environmental Management with State agencies, companies or consultancies
- ▶ Semi-State bodies such as the EPA and BIM and NGOs such as An Taisce
- ▶ Conservation Organisations
- ▶ Agriculture and Aquaculture

Conversion Courses

- ▶ Professional Master of Education (PME)
- ▶ Graduate Veterinary Medicine
- ▶ Graduate Medicine
- ▶ Master of Business Administration
- ▶ Master in Management

*See pages 4 and 5 for information on the terminology used above. Potential combinations shown here are examples only and are not guaranteed by UCD. Topics are subject to change each year.



www.ucd.ie/myucd/environmentalbiology

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