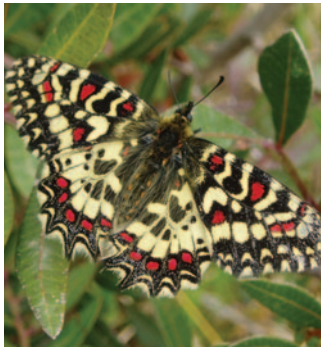


# Environmental Biology

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



Rare Festoon butterfly taken on a third year field trip to Spain.  
Image by Professor Tasman Crowe  
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- 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

“

I had the opportunity to travel to the Costa Rican Rainforest for a two-week field trip with my classmates and lecturers. The trip to the rainforest allowed us to put the theory we had learned into practice. We had the chance to advance our skills in field sampling, monitoring and data handling and we also got to live in one of the most biodiverse ecosystems in the world with pumas, monkeys, parrots, giant butterflies and snakes.

Sadhbh McCarrick,  
Student

”

## Sample pathway for a degree in Environmental Biology \*

YEAR 1

### ENGAGE WITH THE PRINCIPLES

#### BIOLOGY

Modules include:

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

#### CHEMISTRY

Modules include:

- ▶ The Basis of Organic and Biological Chemistry

#### MATHEMATICS

Modules include:

- ▶ Mathematics for the Biological & Chemical Sciences

- ▶ One Elective module
- ▶ One Small-Group Project

YEAR 2

### CHOOSE YOUR SUBJECTS

The subject combinations listed below are illustrative of what a student who graduates in Environmental Biology could choose in Year 2. Further subject combinations are possible depending on the choices in Year 1. Further information is available on page 19.

#### ENVIRONMENTAL BIOLOGY

Modules include:

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

#### ZOOLOGY

Modules include:

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

#### PLANT BIOLOGY

Modules include:

- ▶ Principles of Plant Biology and Biotechnology

- ▶ Two Elective modules

YEAR 3

### FOCUS ON YOUR CHOSEN SUBJECT

ENVIRONMENTAL BIOLOGY – Modules 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 – Modules 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 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. Modules are subject to change each year.



[www.ucd.ie/myucd/environmentalbiology](http://www.ucd.ie/myucd/environmentalbiology)

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