# Environmental Biology

**SCU1 Option: Biological, Biomedical and Biomolecular Science (BBB)**

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

### YEAR 1

**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

**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

**ZOLOGY**
- 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

### YEAR 4

**REFINE YOUR KNOWLEDGE**

**ENVIRONMENTAL BIOLOGY** — Topics include:
- Environmental Biology Research Project
- Marine Community Ecology
- Bioassessment of Freshwaters
- Biological Invasions

**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

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*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.*

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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**

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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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