

# Zoology

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

## Sample pathway for a degree in Zoology \*

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 Zoology could choose in Year 2. Further subject combinations are possible depending on the choices in Year 1. Further information is available on page 19.

#### ZOOLOGY

Modules include:

- ▶ Principles of Zoology
- ▶ Scientific Communication
- ▶ Animal Behaviour
- ▶ Molecular Genetics and Biotechnology
- ▶ Chemistry for Biologists

#### ENVIRONMENTAL BIOLOGY

Modules include:

- ▶ Principles of Environmental Biology and Ecology

#### GENETICS

Modules include:

- ▶ Principles of Genetics
- ▶ Metabolic and Immune Systems
- ▶ Biomolecular Laboratory Skills

- ▶ Two Elective modules

YEAR  
3

### FOCUS ON YOUR CHOSEN SUBJECT

#### ZOOLOGY – Modules include:

- ▶ Systems Ecology
- ▶ Working with Biological Data
- ▶ Diversity of Vertebrates
- ▶ Evolutionary Biology

- ▶ Functional Morphology
- ▶ Arthropoda
- ▶ Diversity of Invertebrates
- ▶ Field courses in Ireland and Spain

- ▶ Two Elective modules

YEAR  
4

### REFINE YOUR KNOWLEDGE

#### ZOOLOGY – Modules include:

- ▶ Zoology Research Project
- ▶ Biological Invasions

- ▶ Marine Community Ecology
- ▶ Bioassessment of Freshwaters
- ▶ Biodiversity

- ▶ Molecular Phylogenetics and Evolution
- ▶ Physiology of Epithelial Transport

### BSc (Honours) Zoology

#### MSc (Taught)

- ▶ MSc Applied Environmental Science
- ▶ MSc World Heritage Management
- ▶ MSc Biological & Biomolecular Science (Negotiated Learning)

#### PhD

- ▶ Students can pursue a PhD in universities in Ireland or abroad in areas as diverse as evolution and population biology and cell and molecular biology

#### Industry

- ▶ National Parks and Wildlife Services
- ▶ Semi-State bodies such as the ESB, BIM and Salmon Research Trust
- ▶ Conservation Bodies
- ▶ Agriculture and Aquaculture
- ▶ Environmental Management

#### 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.



An image taken on a field trip with students from the School of Biology & Environmental Science.

Image by Dr Jon Yearsley © UCD

- Learn about animals from the level of individual molecules to how animals interact with one another and their environment
- Develop key practical skills in field work, behavioural observation, species identification, genetic analysis, physiology and anatomy

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The Costa Rican rainforest was a sensual overload, a true wildlife paradise and a dream come true for any zoologist. Staff and students alike were constantly uncovering the countless creatures of the forest and putting our knowledge to work to quantify and sample in such a different world, a truly unforgettable experience.

Adam Smith, Student

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