BSC (HONS) ZOOLOGY

Overview

NFQ Level 8, Major Award

Students enter Second Science Zoology through the First Science Area of Study: Biological, Earth and Environmental Sciences (CK404) (https://ucc-ie-public.courseleaf.com/programmes/bscr/) provided they have passed First Science.

The Fourth Science Research Project **must** be passed for the award of a BSc (Hons) Degree.

Elective Modules

The selection of elective modules in Third and Fourth Years may depend on the student having the necessary prerequisites. Elective modules must, therefore, be chosen in consultation with the appropriate Head of Discipline. In exceptional cases, the Academic Board of the School of Biological, Earth and Environmental Sciences and the College will be prepared to consider applications for alternative elective modules in Third Year. Modules that have been taken and passed in one year of study may not be re-taken in a subsequent year.

BSc Ordinary Degree - NFQ Level 7, Major Award

Students who pass Third Year may choose not to proceed to Fourth Year and may opt instead to be conferred with a BSc Ordinary Degree.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

Programme Requirements

Code	Title Cr	edits	
Year 1			
Students take 60 credits as follows:			
Core Modules			
BL1002	Cells, Biomolecules, Genetics and Evolution	5	
BL1004	Physiology and Structure of Plants and Animals	5	
BL1006	Habitats and Ecosystems	5	
BL1009	Grand Challenges in Biological, Earth and Environmental Sciences	5	
CM1003	Introductory Chemistry for Environmental Scientists	10	
EV1002	Introduction to Environmental Science	5	
GL1001	Introduction to Geology	5	
GL1004	Geological Evolution of Ireland	5	
GG1010	Introduction to Physical Geography	5	
MA1001	Calculus for Science Part 1	5	
PY1009	Physics for the Environmental Sciences I	5	
Year 2			
Students take 60 credits as follows – all listed core modules (50 credits) and 10 credits of elective modules:			
Core Modules			
AE2001	Fundamentals of Ecology	5	
AE2007	Ecological Fieldwork and Analysis	10	
BL2001	Plant and Animal Genetics	5	
BL2002	Understanding and Reviewing Scientific Literature	5	

ST2001	Introduction to Biostatistics	5
ZY2000	Vertebrate Diversity	5
ZY2005	Invertebrate Diversity	5
ZY2006	Vertebrate Diversity 2	5
ZY2007	Practical Invertebrate Skills	5
Elective Modules		
GG/MA/PS/GS		
Students take mo	odules to the value of 10 credits from the following:	10
GG2037	Introduction to Geoinformatics (5)	
MA1002	Calculus for Science Part 2 (5)	
PS2001	Introduction to Plant Biotechnology (5)	
PS2002	Ecological Plant Physiology (5)	
PS2003	Plant Identification (5)	
GS2002	The Evolving Earth (5)	
Year 3	J , ,	
Students take 60	credits as follows:	
Core Modules		
AE3013	Practical Field Ecology	10
BL3001	Zoology and Ecology Literature Review	5
BL3002	Evolution & Diversity	10
BL3003	Conservation Biology	5
BL3004	Key Research Skills in Biology	5
ST3001	Biostatistics I	5
ZY3015	Advanced Vertebrate Biology	5
ZY3019	Adaptations to Extreme Environments	5
ZY3020	Animal Behaviour	5
ZY3023	Advanced Invertebrate Zoology	5
Year 4	navanoca invertesiate zoology	Ū
	credits as follows – all listed core modules (45	
	redits of elective modules:	
Core Modules		
AE4012	Landscape Conservation and Management	10
or ZY4020	Temperate Marine Biology	
BL4001	Research Project	15
ZY4016	Biology of Marine Mammals	5
ZY4021	Evolutionary Ecology	5
ZY4022	Pathogen biology, ecology and control	5
ZY4023	Global Topics in Marine Biology	5
AE/BL/EV/GL/PS/		
Elective Modules		
Students take mo	odules to the value of 15 credits from the following:	15
AE4016	Advanced Ecology and Biogeography (5)	
AE4020	Field Ornithology (5)	
AE4021	Freshwater Macroinvertebrate Biomonitoring (5)	
BL4003	Biological Work Placement (5)	
BL4006	Sustainable Food Production (5)	
EV4012	Environmental Impact Assessments (5)	
GL4024	Advanced Palaeobiology (5)	
PS4021	Sustainable Plant Pest and Disease Management	
	(5)	
PS4024	Crop Physiology and Climate Change (5)	

ST4001 Biostatistics II (5)

Total Credits

240

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Learning Outcomes

Programme Learning Outcomes for BSc in Zoology (NFQ Level 8, Major Award)

On successful completion of this programme, students should be able to:

- Demonstrate knowledge of aquatic and terrestrial invertebrate and vertebrate biology, systematics and taxonomy;
- Assemble information on zoological issues and critically appraise it for scientific credibility and relevance;
- Communicate in oral and written reports about zoological issues with technical and non-technical audiences;
- Demonstrate an understanding of the role of human activities on ecosystems and evaluate approaches to minimize or prevent negative impacts;
- · Demonstrate an ability to undertake an independent research project;
- Design experiments, collect data, select and execute appropriate analyses and interpret and present results in appropriate formats;
- Analyze the appropriateness of different laboratory and field experimental protocols.