

# BSC (HONS) ECOLOGY AND ENVIRONMENTAL BIOLOGY

## Programme Requirements

Code	Title	Credits
<b>Year 1</b>		
Students take <b>60</b> credits as follows:		
<i>Core Modules</i>		
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
GG1010	Introduction to Physical Geography	5
GS1001	Introduction to Geology	5
GS1004	Geological Evolution of Ireland	5
MA1001	Calculus for Science Part 1	5
PY1009	Physics for the Environmental Sciences I	5
<b>Year 2</b>		
Students take <b>60</b> credits as follows – all listed core modules ( <b>55</b> credits) and <b>5</b> credits of elective modules:		
<i>Core Modules</i>		
AE2001	Fundamentals of Ecology	5
AE2007	Ecological Fieldwork and Analysis	10
BL2001	Plant and Animal Genetics	5
BL2002	Understanding and Reviewing Scientific Literature	5
PS2002	Ecological Plant Physiology	5
PS2003	Plant Identification	5
ST2001	Introduction to Biostatistics	5
ZY2000	Vertebrate Diversity	5
ZY2005	Invertebrate Diversity	5
ZY2007	Practical Invertebrate Skills	5
<i>Elective Modules</i>		
Students take modules to the value of <b>5</b> credits from the following:		
<i>EV/GG/ZY</i>		
EV2002	The Environment and Human Health (5)	
GG2037	Introduction to Geoinformatics (5)	
ZY2006	Vertebrate Diversity 2 (5)	
<b>Year 3</b>		
Students take <b>60</b> credits as follows – all listed core modules ( <b>40</b> credits) and <b>20</b> credits of elective modules:		
<i>Core Modules</i>		
AE3013	Practical Field Ecology	10
AE3021	Freshwater Macroinvertebrate Biomonitoring	5
AE3022	Habitat Assessment	5
BL3001	Zoology and Ecology Literature Review	5
BL3003	Conservation Biology	5
BL3004	Key Research Skills in Biology	5

ST3001	Biostatistics I	5
<i>Elective Modules</i>		
Students take modules to the value of <b>20</b> credits from the following:		
<i>BL/EV/GS/PS/ZY</i>		
BL3008	Evolution 2—Diversity and Extinction (5)	
EV3013	Global Environmental Issues (5)	
EV3017	Freshwater Science (5)	
GS3007	Evolution 1—Plant and Animal Evolutionary Origins (5)	
PS3012	Plants and Hostile Environments (5)	
PS3021	Plant Science Practical Skills (5)	
ZY3015	Advanced Vertebrate Biology (5)	
ZY3019	Adaptations to Extreme Environments (5)	
ZY3020	Animal Behaviour (5)	
ZY3023	Advanced Invertebrate Zoology (5)	
<b>Year 4</b>		
Students take <b>60</b> credits as follows – all listed core modules ( <b>35</b> credits) and <b>25</b> credits of elective modules:		
<i>Core Modules</i>		
AE4012	Landscape Conservation and Management	10
or ZY4020	Temperate Marine Biology	
AE4016	Advanced Ecology and Biogeography	5
BL4001	Research Project	15
EV4012	Environmental Impact Assessments	5
<i>Elective Modules</i>		
Students take modules to the value of <b>25</b> credits from the following:		
<i>AE/BL/GG/PS/ST/ZY</i>		
AE4020	Field Ornithology (5)	
BL4003	Biological Work Placement (5)	
BL4006	Sustainable Food Production (5)	
GG3012	Advanced Geographical Information Systems (5)	
PS4021	Sustainable Plant Pest and Disease Management (5)	
PS4024	Crop Physiology and Climate Change (5)	
ST4001	Biostatistics II (5)	
ZY4021	Evolutionary Ecology (5)	
ZY4022	Pathogen biology, ecology and control (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*.