# **BSC (HONS)** (ENVIRONMENTAL SCIENCE WITH ENVIRONMENTAL **MANAGEMENT)**

### Overview

NFQ Level 8, Major Award

(Dual Degree)

This is a four year programme delivered in partnership with Minzu University of China (MUC) with whom University College Cork has signed a bilateral agreement under statute 263 of the National University of Ireland. This programme leads to a dual degree which is awarded independently from both institutions. In first, second and fourth year students will study in MUC. Third year is completed in UCC. Some modules will be taught and examined in English in first and second year and third and fourth year will be taught and examined entirely in English.

### First Year - Environmental Science with Environmental Management

This year is spent pursuing an approved course of study at a MUC with whom UCC has a bilateral agreement. Students take core modules to the value of 60 credits (or ECTS equivalent).

### **Second Year - Environmental Science with Environmental Management**

This year is spent pursuing an approved course of study at a MUC with whom UCC has a bilateral agreement. Students take core modules to the value of 60 credits (or ECTS equivalent).

## Third Year - Environmental Science with Environmental Management

To be admitted to the Third University Examination in Environmental Science with Environmental Management a student must have satisfactorily attended modules amounting to 60 credits comprising core modules to the value of 50 credits and elective modules to the value of 10 credits.

## Fourth Year -Environmental Science with Environmental Management

To be admitted to the Fourth University Examination in Environmental Science with Environmental Management a student must have satisfactorily attended modules to the value of 60 credits comprising core modules to the value of 50 credits, and elective modules to the value of 10 credits.

### **Programme Requirements**

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

### **Programme Requirements**

Code	Title	Credits
Year 1		

Students take modules to the value of 60 credits (or ECTS equivalent) as follows:

Core N	1odi	ules
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1043030109	Introduction to Environmental Science	5
1043030292	Advanced Mathematics I	10
1043030293	Physics for Environmental Sciences I	5
1043030010	Analytical Chemistry Lab	5
1043030129	Analytical Chemistry	5
1043040294	Physical Chemistry	5
1043040095	Physical Chemistry Lab	5
1043040430	Environmental Geology	5
BL1007	Plants and Animal Physiology and Structure	5
BL1008	Ecosystems and Habitats	5
EV1004	Environmental Science and Management	5

#### Year 2

Students take modules to the value of 60 credits (or ECTS equivalent) as follows:

#### Core Modules

1043040296	<b>Environmental Information Technology</b>	5
1043030070	Environmental Chemistry	5
1043030071	Environmental Chemistry Lab	5
1043040178	Environmental Biology	5
1043030068	Environmental Monitoring	5
1043030069	Environmental Monitoring Lab	5
1043030132	Ecology and Lab	10
GL2005	Introduction to Earth Science	5
EV2005	Environmental Science Field Training 1	5
PS2004	Plant Identification and Taxonomy	5
ZY2008	Invertebrate Zoology	5

### Year 3

Students take modules to the value of 60 credits (or ECTS equivalent) as follows - all listed core modules (50 credits) and 10 credits of elective modules:

#### Core Modules

EV3019	Reviewing Scientific Literature	5
BL3003	Conservation Biology	5
CM4112	Atmospheric Chemistry and Air Pollution	5
EV2002	The Environment and Human Health	5
EV3016	Environmental Science Field Training II	10
EV3017	Freshwater Science	5
GG3041	Environmental Remote Sensing	5
PY3011	Environmental Physics	5
ST2001	Introduction to Biostatistics	5
Elective Modules		

Students take n	nodules to value of 10 credits from the following:	10
GG3012	Advanced Geographical Information Systems (5)	
GL3031	Environmental Hydrogeology (5)	
GS2002	The Evolving Earth (5)	
PA3300	Valuing the Environment (5)	
PS3008	Physiology of Plants in extreme Environments (5)	

Students take modules to the value of 60 credits (or ECTS equivalent) as follows - all listed core modules (50 credits) and 10 credits of elective modules:

### Core Modules

AE4017	Biogeography	5
EV4014	Environmental Science and Management Research Project	15
EV4015	Environmental Auditing and Risk Assessment	5
EV4016	Environmental Science Work Placement	5
1043030227	Environmental Impact Assessment	10
1043030309	Environmental Management	10
Elective Modules		
Students take mo	dules to value of 10 credits from the following:	10
1043040426	Environmental Economics (10)	
1043030249	Environmental Law (5)	
1043040090	Environmental Microbiology (5)	
1043030077	Environmental Microbiology Lab (5)	
1043040315	Global Change Ecology (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 (Hons) (Environmental Science with Environmental Management) (NFQ Level 8, Major Award)

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

- Appreciate the functioning and management of environmental systems
- Appraise impacts of human activities on the environment and current approaches to minimising or preventing negative impacts as well as the management and restoration of ecosystems
- · Evaluate environmental issues using scientific principles
- Source information on environmental issues and critically appraise it for scientific credibility and relevance
- Synthesise and apply published information and data from the biological, chemical and earth sciences to the analysis of environmental problems
- Perform field measurements of basic environmental parameters and analyse, interpret and report the results
- Select appropriate methods, and design programmes, for environmental assessment and monitoring
- · Design and undertake scientific research projects
- Communicate effectively, orally and in written reports, about environmental issues with technical and non-technical audiences