

## **Programme Regulations 2022/2023**

### **Programme Titles:**

**Degree of Master of Environmental Science UCAS Code: F900**

**Degree of Master of Environmental Science with Placement Year Code: 1624U**

#### *Notes*

- (i) These programme regulations should be read in conjunction with the University's Undergraduate Taught Programme Regulations.*
- (ii) All optional modules are offered subject to the constraints of the timetable and to any restrictions on the number of students who may be taught on a particular module. Not all modules may be offered in all years and they are listed subject to availability.*
- (iii) A compulsory module is a module which a student is required to study.*
- (i) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (ii) If the candidate meets the requirements for the Degree of Bachelor of Science with Honours in Environmental Science (F850), they may transfer to that programme at any time before the start of the semester 2 examination period in Stage 3.*
- (iii) Programme transfers for Tier 4 students may be restricted by current Tier 4 rules. Please refer to the Visa Team for advice.*
- (iv) All candidates must meet the lower level requirement of FHEQ credits as highlighted in the Newcastle University Qualifications and Credit Framework.*

## 1. Stage 1

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE1008	Environment and Land Resources	10	10		4	
ACE1040	Academic and Professional Skills	20	10	10	4	
ACE1045	Investigating Rural Landscapes	20		20	4	
ACE1046	Plants, Environment, Agriculture	10		10	4	
CEG1601	Earth System Science	10	10		4	
CEG1602	The Geosphere	20	10	10	4	
CEG1702	Geographic Information Systems	10	10		4	

(b) All candidates shall take 20 credits of optional modules normally selected from the following:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE1041	Agri-Food Supply Chains	20	10	10	4	
ACE1057	Natural Science Research Impact	10		10	4	
BIO1022	Ecology and Conservation	20	20		4	
CEG1606	Interpreting Geological Maps	10		10	4	
MST1203	The Marine Environment	20		20	4	

## 2. Stage 2

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE2061	Site Management and Communication Skills	20	10	10	5	
ACE2069	Dissertation and Research Preparation	10		10	5	
ACE2074	Soils in Terrestrial Ecosystems	10	10		5	
ACE2077	Sustainable Solutions	10	10		5	
BIO2018	Pollution of Air, Water and Soil	10	10		5	
CEG2609	Research Methods in Environmental Pollution	20	20		5	

(b) All candidates shall take 50 credits of optional modules normally selected from the following:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE2003	Landscape, Culture and Heritage	20		20	5	
BIO2028	Biodiversity, Ecology and Conservation	20		20	5	
CEG2604	Global Element Cycling	10		10	5	
CEG2606	Geological Resources	10	10		5	
CEG2607	Geomicrobiology	10		10	5	
LAW2053	Law and Land Use	10	10		6	
NCL2007	Career Development for second Year Students	20	10	10	5	

NCL2100	Developing Enterprise, Entrepreneurship and Employability	20	10	10	5	
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With the approval of the Degree Programme Director, alternative optional modules to those listed above may be selected.

To progress to Stage 3 of this degree programme, candidates are required to obtain an average over all modules taken at Stage 2 of at least 55, with no more than 20 credits lower than 50.

### 3. Year 3 (Intercalating Year)

On completion of Stage 2 and before entering Stage 3, candidates may as part of their studies for the degree spend a year in a placement with an approved organisation. Permission to undertake a placement is subject to the approval of the Degree Programme Director. Students who are required to re-sit their Stage 2 assessment must delay the start of their placement until they have done so. Students who fail Stage 2 may not complete a placement year.

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
NCL3000	Career Service Placement Year Module	120	60	60	6	

### 4. Stage 3

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE2074*	Soils in Terrestrial Ecosystems	10	10		5	
ACE3080	Environmental Impact Assessment	20	10	10	6	
ACE3207	Sustainable Development and Environmental Valuation	10	10		6	
CEG3699	Earth and Environmental Science Dissertation	30	10	20	6	

\*ACE2074 will be offered at Stage 3 for 2021/22 only

(b) All candidates shall take 50 credits of optional modules normally selected from the following:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE2078	Qualitative Research Methods	10	10		5	
ACE3016	Countryside Management	20	10	10	6	
ACE3017	Rural Planning, Politics and Society	20		20	6	
BIO3039	Biodiversity Science and Management	20		20	6	
BIO3049	Biological Modelling	20	20		6	
CEG3606	Biogeochemistry	20	20		6	
CEG3707	Geohazards and Deformation of the Earth	10		10	6	
NCL3007	Career Development for Final Year Students	20	10	10	6	

With the approval of the Degree Programme Director, alternative optional modules to those listed above may

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be selected.

To progress to Stage 4 of this degree programme, candidates are required to obtain an average over all modules taken at Stage 3 of at least 55, with no more than 20 credits lower than 50.

## 5. Stage 4

All candidates shall select one of the following streams (A-D):

### A. Ecosystem Management

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE8016	Habitat Monitoring and Assessment	20		20	7	Block
ACE8041	Ecosystem Management	10		10	7	Block
ACE8099	Earth and Environmental Science Research Project	60	30	30	7	
ACE8116	Forest Ecology	20	20		7	Block
NES8006	Data preparation, analysis, interpretation and presentation for MSc	10	10		7	Block

### B. Agricultural and Environmental Science

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE8099	Earth and Environmental Science Research Project	60	30	30	7	
ACE8116	Forest Ecology	20	20		7	Block
CEG8608	Remediating Contaminated Land	10		10	7	Block
NES8006	Data Preparation, Analysis, Interpretation and Presentation for MSc	10	10		7	Block

(b) All candidates shall take 20 credits of optional modules normally selected from the following:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE8211	Precision technologies and global challenges in managed animal behaviour and welfare	20	10	10	7	
ACE8909	Precision Agriculture incorporating Non-Combinable Crops	20	10	10	7	

With the approval of the Degree Programme Director, alternative optional modules to those listed above may be selected.

### C. Environmental Geochemistry

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE8099	Earth and Environmental Science Research Project	60	30	30	7	
CEG8112	Air Pollution	10	10		7	Block
CEG8604	Introduction to Microbiology and Microbial Transformation of Pollutants	10		10	7	Block
CEG8605	Aqueous Geochemistry	10	10		7	Block
CEG8606	Sources, Fates and Control of Pollutants	10		10	7	Block
CEG8608	Remediating Contaminated Land	10		10	7	Block
NES8006	Data Preparation, Analysis, Interpretation and Presentation for MSc	10	10		7	Block

### D. Clean Technology

(a) All candidates shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
ACE8099	Earth and Environmental Science Research Project	60	30	30	7	
CEG8608	Remediating Contaminated Land	10		10	7	Block
CME8012	Business and Environmental Management	10		10	7	Block
NES8006	Data Preparation, Analysis, Interpretation and Presentation for MSc	10	10		7	Block

(b) All candidates shall take 30 credits of optional modules normally selected from the following:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>	<i>Mode</i>
CME8038	Sustainable Industry	10	10		7	Block
SPG8008	Renewable Energy: Biomass and Bioenergy	10		10	7	Block
SPG8009	Renewable Energy: Policy, Politics and Ethics	10	10		7	Block
SPG8014	Introduction to Hydro, Wind, Wave and Tidal Energy	10	10		7	Block
SPG8016	Design, Innovation and Entrepreneurship in Science and Engineering	20		20	7	Block

With the approval of the Degree Programme Director, alternative optional modules to those listed above may be selected.

### 6. Assessment methods

Details of the assessment pattern for each module are explained in the module outline.

## **7. Degree classification**

Candidates will be assessed for degree classification on the basis of all the modules taken at Stages 2, 3 and 4 with the weighting of the stages being 1:2:3 for Stages 2, 3 and Stage 4 respectively.