

## Programme Regulations: 2024/25

### Programme Titles:

Degree of Master of Earth Science in Earth Science - UCAS Code: F640

Degree of Master of Earth Science in Earth Science with Year in Industry – Code: 1642U

Degree of Master of Earth Science in Earth Science with International Study Year – Code 1813U

Degree of Master of Earth Science in Earth Science with Year in Industry – UCAS Code: F645\*

### Notes

- (i) *These programme regulations should be read in conjunction with the University's 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.*
- (iv) *If a candidate meets the requirements for the three-year BSc in Earth Science degree (F641) they may transfer to that programme at any time before the start of Stage 3.*
- (v) *Programme transfers for Tier 4 student may be restricted by current Tier 4 rules. Please refer to the Visa Team for advice.*
- (vi) *All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.*
- (vii) *Programme F645 is withdrawn from entry effective from September 2022.*

## 1. Stage 1

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

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Mode
CEG1702	Geographic Information Systems (GIS)	10	10		4	
NES1100	Sustainability in Practice	20	10	10	4	
NES1200	Academic and Professional Skills	20	10	10	4	
NES1201	Introduction to Sustainability	20	10	10	4	
NES1205	Plants, Environment, Agriculture	10	10		4	
NES1206	Climate Change and the Earth System	10	10		4	
NES1208	Earth and Environment Field Course	10		10	4	Block
NES1210	Dynamic Earth	10		10	4	
NES1507	Introductory Oceanography	10		10	4	

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

## 2. Stage 2

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

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
CEG1706	Earth Observation	10	10		4
NES2200	Dissertation and Research Preparation	10		10	5
NES2202	Sustainable Solutions	10	10		5
NES2203	Minerals and Rocks for a Changing Climate	10	10		5

NES2208	International Earth and Environmental Science Fieldtrip	20		20	5
NES2209	Research Methods in Environmental Pollution	20	20		5
NES2211	Earth Surface Processes and Landforms	20	20		5

(b) All candidates shall select optional modules to the value of 20 credits from the following list:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
CEG2704	GIS Methods and Applications	10		10	5
CEG2709*	Satellite Earth Observation	10		10	5
CEG2719	Global Navigation Systems for Geoscientists	10		10	5
NES2302	Pollution of Air, Water and Soil	10	10		5
NES2503	Oceans & Climate I	20	20		

\* This module will run in 2024/25 and in alternate years thereafter, 2026/27 etc

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.

### 3. Year 3 - Intercalating Year

#### (i) Careers Placement

On completion of Stage 2 (with an overall pass threshold of 50% at the end of Stage 1) 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>
NCL3000	Careers Service Placement Year Module	120	60	60	6

#### (ii) International Study Year

On completion of Stage 2 (with an overall pass threshold of 50% at the end of Stage 1) and before entering Stage 3, candidates may as part of their studies for the degree spend a year abroad at an appropriate exchange partner institution. Permission to undertake a year abroad 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 year abroad.

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Level</i>	<i>Type</i>	<i>Mode</i>
ISY3000	International Study Year	120	60	60	0	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>
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NES3200	Earth and Environmental Science Dissertation	30	10	20	6
NES3202	Current Issues in Earth and Environmental Sciences	20	10	10	6
NES3203	Geotechnical and geophysical investigations	10		10	6

(b) All candidates will choose 20 credits from the modules below:

<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>
CEG3701	Advanced GIS Field Course	20	20		6	
NES3204	Geological Mapping Fieldtrip	20	20		6	Block

(c) All candidates shall select optional modules to the value of 40 credits from the following list. **(Candidates should only select one from CEG2719 and CEG2709):**

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
CEG2709*	Satellite Earth Observation	10		10	5
CEG2719	Global Navigation Systems for Geoscientists	10		10	5
CEG3707	Geohazards and Deformation of the Earth	10	10		6
NES2201	Ecosystem Ecology	10	10		5
NES2503	Oceans and Climate I	20	20		5
NES3201	Environmental Impact Assessment	20	10	10	6
NES3205	Insight, Innovate, Impact	10	10		6
NCL3007	Career Development for Final Year Students	20	10	10	6
NES3011	Your Future – Occupational Awareness	10		10	6

\* This module will run in 2024/25 and in alternate years thereafter; 2026/27 etc

Candidates should look to select modules with a credit weighting of 60/60 per semester. A 70/50 or 50/70 split is allowable, but candidates should speak to their personal tutor in the first instance.

With the approval of the Degree Programme Director, alternative optional modules to those listed above may 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 50%.

## 5. Stage 4

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

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Level</i>
NES8200	Earth and Environmental Science Research Project	60	30	30	7

(c) All candidates shall take 60 credits of optional modules normally selected from the following list:

<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>
CEG8107	Environmental Engineering in Low and Middle Income Countries	10		10	7	Block
CEG8212	Assessment of Slope Stability; design of slopes and retaining structures	20	20		7	Block
CEG8514	Climate Change: Vulnerability, Impacts and Adaptation	10		10	7	Block
CEG8524	Water Management: Issues & Challenges	10	10		7	Block
CEG8527	Fundamentals of Conceptual and Numeric Ground Water Modelling	10		10	7	Block
CME8012	Business and Environmental Management	10	10		7	Block
CME8038	Sustainable Industry	10	10		7	Block
NES8006	Data Analysis, Interpretation and Presentation for MSc	10	10		7	Block
NES8011	Problem Solving Through Innovation	10		10	7	Block
NES8100	Habitat Monitoring and Assessment	20		20	7	Block
NES8104	Forest Ecology	20	20		7	Block
NES8211	Your Future - occupational Awareness	10		10	7	
SPG8012	Renewable Energy: Energy Management	10	10		7	Block
SPG8013	Environmental Impact Assessment	10		10	7	Block
SPG8024	Quantifying Energy Decision Making	10		10	7	Block
SPG8025	Subsurface Energy Systems: Exploration, Evaluation and Sustainable Management.	10	10		7	Block
SPG8027	Project Management Appreciation	10		10	7	Block

Candidates should look to select modules with a credit weighting of 60/60 per semester. A 70/50 or 50/70 split is allowable, but candidates should speak to their personal tutor in the first instance.

Module selection at Stage 4 is subject to timetabling.

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 Stage 2, Stage 3 and Stage 4 respectively.