

## Programme Regulations: 2023/24

### 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 Year in Industry – UCAS Code: F645**

*(Withdrawn effective from 2022 entry)*

### 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.*

### 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	
NES1206	Earth System Science	10	10		4	
NES1207	Dynamic Earth	20	10	10	4	
NES1208	Earth and Environment Field Course	10		10	4	Block
NES1507	Introductory Oceanography	10		10	4	

**F645 Year in Industry Only:** In order to progress to the intercalating year candidates are required to obtain an overall pass of at least 50% at the end of Stage 1.

## 2. Stage 2

### (i) Candidates who commenced their studies prior to September 2023

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

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Mode
NES2200	Dissertation and Research Preparation	10		10	5	
NES2202	Sustainable Solutions	10	10		5	
NES2203	Minerals and their Instabilities	10	10		5	
NES2204	Basin Analysis and Stratigraphy	10	10		5	
NES2205	Global Element Cycling	10		10	5	
NES2206	Geological Resources	10	10		5	
NES2207	Geomicrobiology	10		10	5	
NES2208	Basin Analysis Fieldtrip	20		20	5	Block
NES2209	Research Methods in Environmental Pollution	20	20		5	

(b) All candidates shall select optional modules to the value of 10 credits from the following list:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
CEG2704	GIS Methods and Applications	10		10	5
NES2302	Pollution of Air, Water and Soil	10	10		5

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

### (ii) Candidates commencing their studies from September 2023

(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
NES2204	Basin Analysis and Stratigraphy	20	20		5
NES2208	Basin Analysis Fieldtrip	20		20	5
NES2209	Research Methods in Environmental Pollution	20	20		5
NES2210	Earth Materials	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

\* 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. Intercalating Year – F645 / 1642U only

Upon successful completion of Stage 2 (with an overall pass threshold of 50% at the end of Stage 1) and before entering Stage 3, candidates shall spend the equivalent of one academic year in an approved placement. If a candidate is not successful in securing an approved placement, or fails the assessment of the placement year, then the candidate will be required to transfer to Stage 3 of F640.

(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>
NCL3000	Careers Service Placement Year Module	120	60	60	6

### 4. Stage 3

#### (i) Candidates who commenced their studies prior to September 2023

(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>
NES3200	Earth and Environmental Science Dissertation	30	10	20	6
NES3202	Current Issues in Earth and Environmental Sciences	20	10	10	6
NES3203	Subsurface Investigations	10		10	6

(b) All candidates shall take one of the following 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>
CEG3701	GIS Field course	20	20		6	Block
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
NCL3007	Career Development for Final Year Students	20	10	10	6
NES2201	Ecosystem Ecology	10	10		5
NES3011	Your Future – Occupational Awareness	10		10	6
NES3114	Science Communication for Sustainable Development	10	10		6
NES3201	Environmental Impact Assessment	20	10	10	6
NES3205	Creativity Innovation and Market Research in Science and Engineering UG	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.

**(ii) Candidates commencing their studies from September 2023**

(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>
NES3200	Earth and Environmental Science Dissertation	30	10	20	6
NES3202	Current Issues in Earth and Environmental Sciences	20	10	10	6
NES3203	Subsurface Investigations	10		10	6

(b) All candidates will choose 10 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>
NES3011	Your Future – Occupational Awareness	10		10	6
NES3114	Science Communication for Sustainable Development	10	10		6

(c) 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	

GES3204	Geological Mapping Fieldtrip	20	20		6	Block
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(d) All candidates shall select optional modules to the value of 30 credits from the following list. (Candidates should only select one from CEG2719 and CEG2709):

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
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
NCL3007	Career Development for Final Year Students	20	10	10	6
NES2503	Oceans and Climate I	20	20		5
NES3201	Environmental Impact Assessment	20	10	10	6
NES3205	Creativity Innovation and Market Research in Science and Engineering UG	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:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level
GES8200	Earth and Environmental Science Research Project	60	30	30	7

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

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Level	Mode
CEG8107	Environmental Engineering for the Global South	10		10	7	Block
CEG8212	Assessment of slope stability, design of slopes, mine pitwalls and tailing dams	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
NES8100	Habitat Monitoring and Assessment	20		20	7	Block
NES8104	Forest Ecology	20	20		7	Block
NES8211	Your Future - occupational Awareness	10		10	7	
SPG8009	Renewable Energy: Policy, Politics and Ethics	10		10	7	Block
SPG8012	Renewable Energy: Energy Management	10	10		7	Block
SPG8013	Environmental Impact Assessment	10		10	7	Block
SPG8014	Introduction to Hydro, Wind, Wave and Tidal Energy	10	10		7	Block
SPG8017	Introduction to Photovoltaics	10	10		7	Block
SPG8024	Quantifying Energy Decision Making	10		10	7	Block
SPG8027	Project Management Appreciation	10		10	7	Block
SPG8500	Problem Solving Through Innovation	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.

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%.

## 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.