Programme Regulations: 2021/22

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 – 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) Unless otherwise stated under 'Type', modules are not core.

(iv) A compulsory module is a module which a student is required to study.

(v) A core module is a module which a student must pass, and in which a fail mark may neither be carried nor compensated; such modules are designated by the board of studies as essential for progression to a further stage of the programme or for study in a further module. A final stage module cannot be deemed to be core.

(vi) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.

(vii) 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.

(viii) Programmes transfers for Tier 4 students may be restricted by current Tier 4 rules. Please refer to the Visa Team for advice.

See also:
Stage 0 (Foundation Year) for all Degrees of Bachelor of Engineering with Honours and Master of Engineering with Honours

1. Stage 0

Candidates who do not meet the requirements for entry into Stage 1 may with the approval of the Degree Programme Director commence this degree programme at Stage 0 and shall proceed under the regulations relating to Stage 0.

2. Stage 1

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

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
ACE1008	Environment and Land Resources	10	10		4	
ACE1040	Academic and Professional Skills	20	10	10	4	
CEG1601	Earth System Science	10	10		4	
CEG1602	The Geosphere	20	10	10	4	
CEG1604	Geology and GIS Field Course	10		10	4	Block
CEG1606	Interpreting Geological Maps	10		10	4	
CEG1702	Geographic Information Systems	10	10		4	
CEG1706	Principles of Remote Sensing	10		10	4	

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

ACE1010	Environment and Land Use Field Course	10		10	4	
ACE1057	Natural Science Research Impact	10		10	4	
CEG1712	Fundamentals of Surveying 1	10	10		4	
MST1203	The Marine Environment	20		20	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.

3. Stage 2

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

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
ACE2069	Dissertation and Research Preparation	10		10	5	
ACE2077	Sustainable Solutions	10	10		5	
CEG2602	Minerals and their Instabilities	10	10		5	
CEG2603	Basin Analysis and Stratigraphy	10	10		5	
CEG2604	Global Element Cycling	10		10	5	
CEG2606	Geological Resources	10	10		5	
CEG2607	Geomicrobiology	10		10	5	
CEG2608	Geological Field Mapping	20		20	5	Block
CEG2609	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*	*Mode*
BIO2018	Pollution of Air, Water and Soil	10	10		5	
CEG2704	Geographic Information Systems: Theory and Application	10		10	5	
CEG2709	Applied Remote Sensing and Image Processing	10		10	5	

* This module will not run in 2021/22 but will run in alternate years thereafter, e.g 2022/23, 2024/25 etc

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.

4. Intercalating Year – F645 only

(a) 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.

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

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
NCL3000	Careers Service Placement Year Module	120	60	60	6	

5. Stage 3

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

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
CEG3606	Biogeochemistry	20		20	6	
CEG3607	Subsurface Investigations	10		10	6	
CEG3699	Earth and Environmental Science Dissertation	30	10	20	6	

(b) All candidates shall take one of the following modules:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
CEG3608	Geological Field Course	20	20		6	Block
CEG3701	Advanced GIS Field Course	20	20		6	

(c) All Candidates shall take 40 credits of optional modules normally selected from the following list:

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
ACE2074	Soils in Terrestrial Ecosystems	10	10		5	
ACE3080	Environmental Impact Assessment	20	10	10	6	
CEG2719	GNSS for Geoscientists and Engineers	10		10	5	
CEG3707	Geohazards and Deformation of the Earth	10		10	6	
NCL3007	Career Development for Final Year Students	20	10	10	6	
SUG3500	Creativity Innovation and Market Research in Science and Engineering UG	10	10		6	

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. Stage 4

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

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
ACE8099	Earth and Environmental Science Research Project	60	30	30	7	
CEG8607*	The Environment Business	10	10		7	Block

*Not taken by Clean Tech and REEM strand students

(b) All candidates shall take further modules with a total value of 50 credits from one of the discipline strands below:

(i) Environmental Consultancy Discipline Strand

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
ACE8210	Your Future: Occupational Awareness	10		10	7	
CEG8202	Ground Investigation – Design, Principles and Practice	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

(ii) Hydrogeology and Water Management Discipline Strand

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
CEG8202	Ground Investigation – Design, Principles and Practice	10	10		7	Block
CEG8511	Ground Water Assessment	10		10	7	Block
CEG8512	Integrated River Basin Management	10		10	7	Block
CEG8514	Climate Change: Vulnerability, Impacts and Adaptation	10		10	7	Block
CEG8516	Groundwater Modelling	10		10	7	Block

(iv) Environmental Science Discipline Strand

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
ACE8016	Habitat Monitoring and Assessment	20		20	7	Block
ACE8116	Forest Ecology	20	20		7	Block
ACE8210	Your Future: Occupational Awareness	10		10	7	

All Clean Tech candidates shall take the compulsory modules from the discipline strand below:

(iii) Clean Tech Strand

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
ACE8210	Your Future: Occupational Awareness	10		10	7	
CEG8608	Remediating Contaminated Land	10		10	7	Block
CME8012	Business and Environmental Management	10		10	7	Block
CME8037	Sustainable Design and Manufacture I	10	10		7	Block
CME8038	Sustainable Industry	10	10		7	Block
NES8006	Data Preparation, Analysis, Interpretation and Presentation for MSc	10	10		7	Block

All REEM candidates shall take the compulsory modules from the discipline strand below:
REEM (Renewable Energy, Enterprise and Management Strand)

Code	*Descriptive title*	*Total Credits*	*Credits Sem 1*	*Credits Sem 2*	*Level*	*Mode*
SPG8009	Renewable Energy: Policy, Politics and Ethics	10	10		7	Block
SPG8012	Renewable Energy: Energy Management	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

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

7. Assessment methods

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

8. 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.