**Programme Regulations: 2021/22**

**Programme Titles:**

**Degree of Master of Environmental Sciences with Honours in Ecosystem Management**
**UCAS Code: F8C1**

**Degree of Master of Environmental Sciences with Honours in Ecosystem Management with Placement**
**UCAS Code: FC81**

**Degree of Master of Environmental Sciences with Honours in Agricultural and Environmental Science**
**UCAS Code: F8D4**

**Degree of Master of Environmental Sciences with Honours in Agricultural and Environmental Science with Placement**
**UCAS Code: FD84**

**Degree of Master of Environmental Sciences with Honours in Environmental Geochemistry**
**UCAS Code: F8F6**

**Degree of Master of Environmental Sciences with Honours in Environmental Geochemistry with Placement**
**UCAS Code: FF86**

**Degree of Master of Environmental Sciences with Honours in Clean Technology**
**UCAS Code: F8H8**

**Degree of Master of Environmental Sciences with Honours in Clean Technology with Placement**
**UCAS Code: FH88**

*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:

| *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 | |
| 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:

| *Code* | *Descriptive title* | *Total Credits* | *Credits Sem 1* | *Credits Sem 2* | *Level* | *Mode* |
|---|---|---|---|---|---|---|
| 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:

| *Code* | *Descriptive title* | *Total Credits* | *Credits Sem 1* | *Credits Sem 2* | *Level* | *Mode* |
|---|---|---|---|---|---|---|
| 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:

| *Code* | *Descriptive title* | *Total Credits* | *Credits Sem 1* | *Credits Sem 2* | *Level* | *Mode* |
|---|---|---|---|---|---|---|
| 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 | |

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) – Placement students only (FC81, FD84, FF86 & FH88)**

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.

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

**4. Stage 3**

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

| *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 | |
| 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:

| *Code* | *Descriptive title* | *Total Credits* | *Credits Sem 1* | *Credits Sem 2* | *Level* | *Mode* |
|---|---|---|---|---|---|---|
| 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 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**

**A. Honours in Ecosystem Management (F8C1 and FC81)**

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

| *Code* | *Descriptive title* | *Total Credits* | *Credits Sem 1* | *Credits Sem 2* | *Level* | *Mode* |
|---|---|---|---|---|---|---|
| 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. Honours in Agricultural and Environmental Science (F8D4 and FD84)**

(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 | |
| 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:

| *Code* | *Descriptive title* | *Total Credits* | *Credits Sem 1* | *Credits Sem 2* | *Level* | *Mode* |
|---|---|---|---|---|---|---|
| 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. Honours in Environmental Geochemistry (F8F6 and FF86)**

(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 | |
| 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. Honours in Clean Technology (F8H8 and FH88)**

(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 | |
| 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:

| *Code* | *Descriptive title* | *Total Credits* | *Credits Sem 1* | *Credits Sem 2* | *Level* | *Mode* |
|---|---|---|---|---|---|---|
| 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.