Postgraduate Programme Specification
Programme Name

This specification provides a summary of the main features of the programme and learning outcomes that a student might reasonably be expected to achieve and demonstrate where full advantage is taken of all learning opportunities offered. Further details on the learning, teaching and assessment approach for the programme and modules can be accessed on the University website and Virtual Learning Environment, GCU Learn. All programmes of the University are subject to the University's Quality Assurance processes.

GENERAL INFORMATION				
Programme Title	MSc Environmental Management MSc Environmental Management (Oil and Gas) MSc Environmental Management (Waste) MSc Environmental Management (Water) MSc Environmental Management (Energy)			
Final Award	MSc Environmental Management MSc Environmental Management (Oil and Gas) MSc Environmental Management (Waste) MSc Environmental Management (Water) MSc Environmental Management (Energy)			
Awarding Body	Glasgow Caledonian University			
School	Computing Engineering and Built Environment (EBE)			
Department	Civil Engineering and Environmental Management			
Mode of Study	Full-time Part-time Online Distance Learning			
Location of Delivery	Glasgow Campus London Campus			
UCAS Code				
Accreditations (PSRB)				
Period of Approval	From:	September 2023	To:	August 2028

EDUCATIONAL AIMS OF PROGRAMME

The overall aim of the MSc Environmental Management (EM) programme is to enable students to develop an environmental specialisation, within the context of their previous qualifications and experience.

The MSc EM (Waste) Pathway is more specific, in that it allows students to develop skills and knowledge in modern waste management practices, for those who intend to pursue a career in that area.

The MSc EM (Oil and Gas) Pathway is to enable students to develop an Oil and Gas related specialisation, within the context of Environmental Management and building on their previous qualifications and experience.

The MSc EM (Water) Pathway is design to develop the knowledge and skills of students looking to develop a career in the water/wastewater sector.

Finally, the MSc EM (Energy) will place specific emphasis on the environmental consequences of energy use and the opportunities through renewable energy technologies to support a low carbon economy.

The broad scope of the programme is designed to stretch students' educational horizons across traditional subject boundaries, encompassing areas normally associated with engineering, biology, economics, legislation and others. Thus, students will need to understand and develop technical and non-technical arguments at an advanced level.

The educational objectives of the programme are:

• to develop critical intellectual and practical skills of the students in the collection, analysis, interpretation and understanding of data related to environmental pollution;
• to provide the students with up-to-date knowledge and skills to equip them for a career in environmental management, waste management or in the oil and gas sector;
• to develop the students' competence in applying advanced skills to solve environmental problems, using a critical and holistic approach;
• to enhance students' interpersonal, communications and other transferable skills, so that they are competent to operate in senior positions in industry;
• to allow students to acquire educational qualifications which would enable them to gain recognition by professional bodies;
• to provide students with an opportunity to critically explore environmental problems with others from different educational backgrounds, hence enhancing the breadth of their viewpoints on such issues;
• to further develop the students' skills in research methods and practice, so that they can undertake advanced research in environmental, waste or oil and gas topics;
• to enable students to engage with life-long learning, research and creativity tempered with scientific discipline and social awareness.

<u>Patterns of Delivery:</u>

<u>Full-Time – FT</u>

The full-time route will serve the needs of students from a range of undergraduate programmes who wish to further their studies at advanced level, for mature students wishing a career change

and for international students who wish to come to the UK to study. Full-time students would normally complete the programme in one year.

Part-Time – PT

The pattern of delivery adopted for part-time students follows that which has been adopted across the School, where students attend for one day or two half-days per week.

Distance Learning – DL

While the programme is principally taught and delivered to students who can attend classes, the programme has now been developed to a point where the students who wish to participate in the programme remotely, can do so and still receive a Learning experience comparable to the in-campus delivery. A blended learning approach with asynchronous online material, combined with live tutorial/seminar/groupwork events ensure a quality learning environment for all students.

All modules are web-enhanced using the Managed Learning Environment (GCULearn) which means that FT, PT and DL students have access to the required learning materials and resources.

Student Study Routes (Trimester A and Trimester B entrants)
The mode of study for full time and part time students is given in Table 2-1.

	Academic Year 1			Academic Year 2			Academic Year 3		
	Trimester			Trimester			Trimester		
Mode of Attendance	A	B	C	A	B	C	A	B	C
FT Sept start	4 Modules	4 Modules	Project						
FT Feb start		4 Modules		4 Modules	Project				
PT Sept start	2 Modules	2 Modules		2 Modules	2 Modules	Project			
PT Feb start		2 Modules		2 Modules	2 Modules		2 Modules	Project	

Table 2-1 Mode of study and trimesters

London Delivery

The programme is also delivered from the GCU London campus. Staff based in London and Glasgow will provide module delivery support to both Glasgow and London- based student cohorts.

PROGRAMME STRUCTURE AND AVAILABLE AND FINAL EXIT AWARDS[1]							
The following modules are delivered as part of this programme:							
Module Code	**Module Title**	**Core or Optional**	**SCQF Level**	**Credit Size**	**Coursework %**	**Examination %**	**Practical %**
MMF724003	Health, Safety and Environmental Management	**CORE**		15			
MMH127078	Investigative Skills and Professional Development	**CORE**		15			
MMH222327	Environmental Planning and Impact Assessment	**OPTIONAL**		15			
MMH227053	Climate Change & Carbon Management	**OPTIONAL**		15			
MMF827058	GIS and Environmental Management	**OPTIONAL**		15			
MMH227055	Climate Justice Theory and Practice	**OPTIONAL**		15			
MMJ921238	Renewable Energy Technologies	**CORE** (ENERGY)		15			
MMH225986	Building and Energy Technology	**CORE** (ENERGY)		15			
MMH225987	Resource Management and the Circular Economy	**CORE** (WASTE)		15			
MMH121607	Advanced Waste Treatment Technologies	**CORE** (WASTE)		15			
MMH127086	Water Quality and Waste Water Treatment	**CORE** (WATER)		15			
MMF727057	Environmental Pollution, Monitoring & Analysis	**CORE** (WATER)		15			
MMH127086	The Oil and Gas Industry	**CORE** (OIL&GAS)		15			

[1] Periodically, programmes and modules may be subject to change or cancellation. Further information on this can be found on the GCU website here: www.gcu.ac.uk/currentstudents/essentials/policiesandprocedures/changesandcancellationtoprogrammes

MMH227087	Environmental Regulation and State Control of Oil and Gas	**CORE** (OIL&GAS)		15			
MMH127079	Work Placement Project	**CORE**		60			
MMH106215	Project	**CORE**		60			

The programme follows the standard Glasgow Caledonian University model for postgraduate programmes. There are 4 modules per trimester (total 8 taught modules), each valued at 15 SHEM credit points. The Masters dissertation is a 60-credit module, normally completed during the summer months. Each 15-credit module corresponds to approximately 150 hours of notional student effort (including various forms of class contact, private study and assessment).

The programme is offered on both a full-time and part-time basis. The duration of the full-time mode is one calendar year and part time students are normally expected to complete the taught modules in two years. Part time students normally attend the university one day per week studying two modules. Most of the modules have supplementary web-based material via Blackboard Virtual Learning Environment (GCULearn) available to provide a flexible learning mean for students.

In each of the two trimesters students will choose four modules (part time students will choose two). All students must choose the Health, Safety and Environmental Management module as part of a professional accreditation requirement. In addition, an Investigative Skills and Professional Development module is also core, because of its relevance to the Dissertation Project Module and for the future employability of students.

Students wishing to achieve a pathway, must choose the two subject-specific modules and undertake their project dissertation relevant to the pathway. Where a student has undertaken enough work relevant to two pathways, the student can choose which named pathway is assigned to their transcript.

The proposed programme for Glasgow, London based and distance learning programmes is given in Table 4-1. It is expected that all modules will be available to all students. However, it recognised that some modules will have laboratory components and therefore online material, equivalent to any lab-based experiments, will be made available.

Note that an additional Work Placement Project is being introduced, worth 60 credits, as an alternative to the dissertation project. This is to provide a module more suited to students who have the opportunity to work more closely with an organisation on a particular area of research.

Awards

The following awards can be made:

PgC:

• Postgraduate Certificate (PgC) Environmental Management, for four postgraduate modules (60 SHEM credits), equivalent to 1 trimester of full-time study or 2 trimesters of part-time study;

PgD:

• Postgraduate Diploma (PgD) in Environmental Management for a further four modules (total 120 SHEM credits), equivalent to 2 trimesters of full-time study or 4 trimesters of part-time study;

MSc:

Master of Science (MSc) for the equivalent of a further 1 trimester of student effort (to give a total 180 SHEM credits), being a project dissertation. The MSc degree is awarded as follows:

• MSc Environmental Management for students who have completed the PgD, including four Semester A modules and four Trimester B modules and a dissertation on an environmental theme.

• MSc Environmental Management (Waste) for students who have completed the PgD, including the four Semester A modules and four modules in Semester B, including three compulsory modules for the Waste pathway and a dissertation on an approved topic related to waste management.

• MSc Environmental Management (Oil and Gas) for students who have completed the PgD, including the four Semester A modules and four modules in Semester B, including three compulsory modules for the Oil and Gas pathway and a dissertation on an approved topic related to oil and gas management.

• MSc Environmental Management (Water) for students who have completed the PgD, including the four Semester A modules and four modules in Semester B, including three compulsory modules for the Water pathway and a dissertation on an approved topic related to water management.

• MSc Environmental Management (Energy) for students who have completed the PgD, including the four Semester A modules and four modules in Semester B, including three compulsory modules for the Energy pathway and a dissertation on an approved topic related to waste management.

Selection of Taught Modules

When students first register and attend the University the Programme Leader will provide advice and guidance to help them select modules appropriate to their existing experience, their interests and future career aspirations; the aim is to match, as far as is practicable, the learning requirements specific to the student with the portfolio of modules on offer.

Students admitted to the programme will have every opportunity to complete the requirements of the programme specification. However, modules are subject to minimum and maximum numbers, and therefore it cannot be guaranteed that any specific module will be available for any specific cohort. Should a module not be available for any reason, students will be asked to select an alternative module to study.

Masters Dissertation/Project

All students are required to complete the Masters Dissertation/Project module, which is based on a significant piece of individual research. The subject of the research will be an area of special interest to the student, and will be based on a proposal written by the student and submitted to the Dissertation/Project Co-ordinator. The area of research chosen should be of the required subject and intellectual depth and should provide a suitable match with previous study. This may require increased technical depth or greater breadth of subject matter relating to previous projects, case studies or dissertation undertaken by the student.

ASSESSMENT REGULATIONS

Students should expect to complete their programme of study under the GCU Assessment Regulations that were in place at the commencement of their studies on that programme, unless proposed changes to University Regulations are advantageous to students. These can be found at: www.gcu.ac.uk/aboutgcu/supportservices/qualityassuranceandenhancement/regulationsandpolicies