



Module Descriptor

Title	Environmental Protection		
Session	2025/26	Status	Published
Code	CEWM08007	SCQF Level	8
Credit Points	20	ECTS (European Credit Transfer Scheme)	10
School	Health and Life Sciences		
Module Co-ordinator	Chris Seyfried		

Summary of Module

This module takes a holistic view of the Earth's environment and explores the impact of human activities that cause environmental pollution. We explore the implications of different pollutants on the environment, humans and animal health, including the use and handling of toxic and hazardous substance. We also explore how legislation and regulatory frameworks dictate identifying and evaluating hazards, particularly toxic risks, and exploring the behavior, dispersal, and environmental fate of substances.

This module will also explore the impact of environmental pollution in the workplace, effective waste treatment or disposal methods, including emissions to air, liquid effluents, and solid waste. Relevant legislative and regulatory frameworks for safety and environmental management are introduced and contextualized.

Learning is supported by case studies and laboratory work, linking theoretical knowledge to practical applications. These activities provide real-world examples and reinforce the importance of environmental stewardship and safety compliance.

Also, by undertaking this module you develop a range of 'I am UWS' Graduate Attributes.

Universal – development of critical thinking, ethically and research minded.

Work Ready – an effective problem solver, communicator and ambitious.

Successful – by being autonomous, resilient and driven.

Module Delivery Method	On-Campus¹	Hybrid²	Online³	Work -Based Learning⁴
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¹ Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

² The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

³ Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

⁴ Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Campuses for Module Delivery	<input type="checkbox"/> Ayr <input type="checkbox"/> Dumfries	<input checked="" type="checkbox"/> Lanarkshire <input type="checkbox"/> London <input type="checkbox"/> Paisley	<input type="checkbox"/> Online / Distance Learning <input type="checkbox"/> Other (specify)			
Terms for Module Delivery	Term 1	<input type="checkbox"/>	Term 2	<input checked="" type="checkbox"/>	Term 3	<input type="checkbox"/>
Long-thin Delivery over more than one Term	Term 1 – Term 2	<input type="checkbox"/>	Term 2 – Term 3	<input type="checkbox"/>	Term 3 – Term 1	<input type="checkbox"/>

Learning Outcomes	
L1	Demonstrate an awareness of the interaction between human activity and wellbeing of lifeforms (including humans) in the environment and workplace
L2	Identify and integrate the requirements for handling and disposal of representative solid, liquid and airborne waste materials, including sampling, analysis and treatment
L3	Discuss the regulatory implications of Environmental Protection.
L4	Carry out a variety of laboratory investigations related to a range of environmental scenarios.
L5	

Employability Skills and Personal Development Planning (PDP) Skills	
SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:
Knowledge and Understanding (K and U)	SCQF 8 A broad knowledge of the interactions between human activities, hazardous substances and the welfare of human and environmental systems. An understanding of the requirements of safe and acceptable handling of materials in the workplace and of their discharge into the environment. Appropriate familiarity with legal / regulatory frameworks
Practice: Applied Knowledge and Understanding	SCQF 8 Use a range of professional skills, techniques and practices in identifying, analysing and evaluating workplace and environmental hazards and appropriate procedures for the safe use and disposal of hazardous materials. Carry out routine and more open ended investigations and enquiries into qualitative and quantitative evaluation of potential workplace and environmental hazards
Generic Cognitive skills	SCQF 8 Undertake critical analysis, evaluation and synthesis of ideas, concepts and information related to workplace and environmental issues. Identify and analyse routine professional problems and issues related to workplace and environmental chemical hazards. Use a range of sources in making judgements on issues of workplace and environmental safety.
Communication, ICT and Numeracy Skills	SCQF 8 Make formal and informal presentations on mainstream issues to a range of audiences (laboratory reports, assignments, oral presentation etc). Use a range of IT applications to research and present aspects of

	environmental concern. Interpret, use and evaluate numerical, graphical and non-numerical information to achieve goals.
Autonomy, Accountability and Working with Others	SCQF 8 Exercise autonomy and initiative in investigations and in information acquisition. Practice working with others taking account of roles and responsibilities. Deal with certain ethical and professional issues under appropriate guidance

Prerequisites	Module Code	Module Title
	Other Essentially a standalone module, though students may find it helpful to have done some chemistry at SCQF level 7.	
Co-requisites	Module Code	Module Title

Learning and Teaching	
In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours. This module will be delivered in a number of ways: lectures, tutorials, group work and some computer lab work.	
Learning Activities	Student Learning Hours
During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	(Note: Learning hours include both contact hours and hours spent on other learning activities)
Tutorial / Synchronous Support Activity	32
Laboratory / Practical Demonstration / Workshop	16
Independent Study	152
n/a	
n/a	
n/a	
TOTAL	200

Indicative Resources
<p>The following materials form essential underpinning for the module content and ultimately for the learning outcomes:</p> <p>The following materials form essential underpinning for the module content and ultimately for the learning outcomes:</p> <p>Virtual Learning Environment: Timetables, lecture summaries, seminar, assignments, staff contact information and other information associated with the running of the Module.</p> <p>Baird & Cannon, Environmental Chemistry, 5th Edition, 2013, Palgrave MacMillan.</p> <p>International and UK Standards, eg ISO14001, EMAS available from the Barbour Index database</p> <p>“Safety at Work”, Eighth Edition, J Channing, 2014 ISBN 978 0 415 65696 2* www.sepa.org.uk www.netregs.gov.uk https://www.zerowastescotland.org.uk/</p>

<https://www.recycleforscotland.com/> <https://www.gov.scot/policies/managing-waste/resource-efficiency/>

(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the [Student Attendance and Engagement Procedure](#), Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

Attendance to all classes either online or in person (If required)

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: [UWS Equality, Diversity and Human Rights Code](#).

In line with current legislation (Equality Act, 2010) and the UWS Equality, Diversity, and Human Rights Code, our modules are accessible and inclusive, with reasonable adjustment for different needs where appropriate. Module materials comply with University guidance on inclusive learning and teaching, and specialist assistive equipment, support provision and adjustment to assessment practice will be made in accordance with UWS policy and regulations. Where modules require practical and/or laboratory based learning or assessment required to meet accrediting body requirements the University will make reasonable adjustment such as adjustable height benches or assistance of a 'buddy' or helper.

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	Biological Sciences Health
Overall Assessment Results	<input type="checkbox"/> Pass / Fail <input checked="" type="checkbox"/> Graded
Module Eligible for Compensation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.
School Assessment Board	Biology
Moderator	Robin Freeburn
External Examiner	S Boyd
Accreditation Details	REHIS/ IOSH
Module Appears in CPD catalogue	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Changes / Version Number	2

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
Essay
Assessment 2
Presentation
Assessment 3
Laboratory / Clinical / Field Notebook
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Essay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40	0

Component 2							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Presentation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20	0

Component 3							
Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
Laboratory/ Clinical/ Field notebook	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	40	0
Combined total for all components						100%	0 hours

Change Control

What	When	Who
Updated Moderator and external examiner		
Increased Lab by 10% and decreased essay by 10%		
Updated Introduction and revision no		
Updates made to learning outcome 3 and 4		