MODULE SPECIFICATION

Part 1: Information			
Module Title	Sedimentary Environments and Palaeoecology		
Module Code	UBGMP9-30-2	Level	Level 5
For implementation from	2018-19		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Envrnmental Mgmt		
Contributes towards			
Module type:	Standard		
Pre-requisites	Earth Materials 2018-19, Living Earth 2018-19		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Overview: This module will build on level 1 modules on sedimentary rocks and palaeontology. In this module you will examine the environments in which different types of sediments are formed and how they become sedimentary rocks. This module also highlights the environmental and ecological processes that lead to particular fossil assemblage. **Features**: Module Entry requirements: 60 credits at Level 1 **Educational Aims:** See Learning Outcomes. **Outline Syllabus:** You will cover: Earth surface processes, weathering and erosion, mechanisms of sediment transport. The nature and classification of environments in terms of paleoecology Terrestrial aquatic environments: alluvial fans, rivers, deltas, lakes. Desert (aeolian systems) environments. Glacial and periglacial environments. Coastal, estuarine and shallow marine environments. Coral reefs and carbonate producing environments.

Exposure surfaces, hardgrounds, palaeosols.
Palaeoautecology and palaeosynecology

Teaching and Learning Methods: See Outline Syllabus and Assessment.

Part 3: Assessment

Summative assessment

Component A – Examination (2 hours). Learning outcomes 1-7.
Written examination with a practical component.
Strategy:
This will assess students' ability to interpret the products and life forms of different sedimentary environments and how they form facies and associations in the rock record.
Students will be able to demonstrate their understanding of key concepts in interpreting sedimentary architecture and palaeoecology and the impact of environmental change.
The exam will also assess students' engagement with academic literature.

Component B – Field work report (2500 words). Learning outcomes 1-7.
Strategy:
Students will be able to build up the information for this report throughout the module and receive formative feedback (see below).
The assignment will examine students' application of knowledge gained from teaching on the course and their background reading.
Students will be able to demonstrate that they have practical skills to interpret sedimentary environments and carry out palaeoecological surveys.
The report will include an independent interpretation of a field locality so students will be able to demonstrate their understanding of sedimentological and palaeoecological parameters and their engagement with academic literature.

Formative work

Formative work will be set weekly during practical and field sessions for students' self-assessment. Formative work will be an integral part of the reading strategy. Students will receive preparation practical exercises that will help with interpretative questions for the summative assessment.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Report - Component B		50 %	Report (2500 words)
Examination - Component A	✓	50 %	Written examination (2 hours)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Report - Component B		50 %	Report (2500 words)
Examination - Component A	✓	50 %	Written examination (2 hours)

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will be able to:

	Module Learning Outcomes
MO1	Articulate key concepts and ideas in the fields of sedimentology and palaeoecology
MO2	Categorise key processes and products of sedimentation in the range of terrestrial and marine environments
MO3	Describe environmental adaptations adopted by organisms
MO4	Evaluate changes in sedimentary environments and the impact on organisms
MO5	Evaluate ecological limitations on organisms
MO6	Analyse and interpret sedimentary facies and architecture
MO7	Demonstrate independent engagement with academic literature

Contact Hours

Contact Hours	
Independent Study Hours:	
Independent study/self-guided study	228
Total Independent Study Hours:	228
Scheduled Learning and Teaching Hours:	
Face-to-face learning	72
Total Scheduled Learning and Teaching Hours:	72
Hours to be allocated	300
Allocated Hours	300

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/modules/ubgmp9-30-2.html