



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Geological Maps		
Module Code	UBGMMP-15-1	Level	Level 4
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Environmental Mgmt		
Contributes towards	Geology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2018-19 Geology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19		
Module type:	Project		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p><b>Educational Aims:</b> See Learning Outcomes</p> <p><b>Outline Syllabus:</b> Horizontal and dipping strata, bed thickness.            Structure contours, true and apparent dip, inliers, outliers.            Three point problems, borehole data.            Unconformities, overstep, overlap.</p>

## STUDENT AND ACADEMIC SERVICES

Geological structures on maps.

Geological cross sections.

Igneous features, complex structures.

Interpreting geological history from maps.

Creating a geological map from field data.

**Teaching and Learning Methods:** Students will receive, on average, 3 hours' contact time per week. This is a practical and field-based module so the contact time will be predominantly in the form of workshops, where students will examine geological maps, and local field work where mapping techniques will be demonstrated. There will be a residential field excursion for students to complete a geological mapping exercise. One-to-one support will be provided during practical and field sessions and via email.

Scheduled learning on this module includes short lectures, demonstrations, field work and practical classes. Independent learning includes hours engaged with essential reading, completion of practical work, assignment preparation and completion. These sessions constitute an average time.

Contact time (lectures, field and laboratory sessions): 50 hours

Assimilation, development of knowledge and independent reading: 60 hours

Preparation of assessment: 40 hours

Total study time: 150 hours

### Part 3: Assessment

Summative assessment:

Component A – Mapping project. Learning outcomes 1-5.

Students will carry out a supervised individual field mapping exercise.

They will be expected to demonstrate that they can recognise and record rocks and structures in the field.

Students will be able to demonstrate their skills in producing an accurate representation of the geology of an area in map form and that they can extrapolate surface information in order to produce a geological cross section.

In the interpretative report accompanying the map students will be able to demonstrate their understanding of geological processes and engagement with academic literature.

This exercise will prepare students for the independent mapping component of their final year project.

Formative work:

Formative work will be set during practical and field sessions for students' self assessment. Formative work will be an integral part of the reading strategy in relation to interpreting geological history. Students will receive formative feedback on map work exercises throughout the module in preparation for the summative assessment.

First Sit Components	Final Assessment	Element weighting	Description
Final Project - Component A	✓	100 %	Mapping project (2500 words or equivalent)
Resit Components	Final Assessment	Element weighting	Description
Final Project - Component A	✓	100 %	Mapping project (2500 words or equivalent)

STUDENT AND ACADEMIC SERVICES

<b>Part 4: Teaching and Learning Methods</b>																					
Learning Outcomes	<p>On successful completion of this module students will be able to:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;"><b>Module Learning Outcomes</b></th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">MO1</td> <td>Interpret geological history from a geological map</td> </tr> <tr> <td>MO2</td> <td>Identify geological structures on maps</td> </tr> <tr> <td>MO3</td> <td>Draw geological cross sections to represent underlying strata and structures</td> </tr> <tr> <td>MO4</td> <td>Create a simple geological map in the field</td> </tr> <tr> <td>MO5</td> <td>Demonstrate independent engagement with academic literature</td> </tr> </tbody> </table>	<b>Module Learning Outcomes</b>		MO1	Interpret geological history from a geological map	MO2	Identify geological structures on maps	MO3	Draw geological cross sections to represent underlying strata and structures	MO4	Create a simple geological map in the field	MO5	Demonstrate independent engagement with academic literature								
<b>Module Learning Outcomes</b>																					
MO1	Interpret geological history from a geological map																				
MO2	Identify geological structures on maps																				
MO3	Draw geological cross sections to represent underlying strata and structures																				
MO4	Create a simple geological map in the field																				
MO5	Demonstrate independent engagement with academic literature																				
Contact Hours	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;"><b>Contact Hours</b></th> </tr> </thead> <tbody> <tr> <td colspan="2" style="height: 20px;"> </td> </tr> <tr> <td colspan="2"><b>Independent Study Hours:</b></td> </tr> <tr> <td style="text-align: center;">Independent study/self-guided study</td> <td style="text-align: center;">100</td> </tr> <tr> <td style="text-align: center;"><b>Total Independent Study Hours:</b></td> <td style="text-align: center;">100</td> </tr> <tr> <td colspan="2"><b>Scheduled Learning and Teaching Hours:</b></td> </tr> <tr> <td style="text-align: center;">Face-to-face learning</td> <td style="text-align: center;">50</td> </tr> <tr> <td style="text-align: center;"><b>Total Scheduled Learning and Teaching Hours:</b></td> <td style="text-align: center;">50</td> </tr> <tr> <td style="text-align: center;"><b>Hours to be allocated</b></td> <td style="text-align: center;">150</td> </tr> <tr> <td style="text-align: center;"><b>Allocated Hours</b></td> <td style="text-align: center;">150</td> </tr> </tbody> </table>	<b>Contact Hours</b>				<b>Independent Study Hours:</b>		Independent study/self-guided study	100	<b>Total Independent Study Hours:</b>	100	<b>Scheduled Learning and Teaching Hours:</b>		Face-to-face learning	50	<b>Total Scheduled Learning and Teaching Hours:</b>	50	<b>Hours to be allocated</b>	150	<b>Allocated Hours</b>	150
<b>Contact Hours</b>																					
<b>Independent Study Hours:</b>																					
Independent study/self-guided study	100																				
<b>Total Independent Study Hours:</b>	100																				
<b>Scheduled Learning and Teaching Hours:</b>																					
Face-to-face learning	50																				
<b>Total Scheduled Learning and Teaching Hours:</b>	50																				
<b>Hours to be allocated</b>	150																				
<b>Allocated Hours</b>	150																				
Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p><a href="https://uwe.rl.talis.com/modules/ubgmmp-15-1.html">https://uwe.rl.talis.com/modules/ubgmmp-15-1.html</a></p>																				