



MODULE SPECIFICATION

Part 1: Information			
Module Title	Research in Geology		
Module Code	UBGMJN-30-2	Level	Level 5
For implementation from	2020-21		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Environmental Mgmt		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Features: Module Entry Requirements: 60 credits at Level 1</p> <p>Educational Aims: See Learning Outcomes.</p> <p>Outline Syllabus: The syllabus has a substantive applied project/fieldwork element to enable students to undertake geological research in the field and laboratory to build towards their final year dissertation.</p> <p>The syllabus includes:</p> <ul style="list-style-type: none"> Introduction to the research process in geology. Critically reviewing academic literature. Formulating research questions, research design and data collection. Data analysis: descriptive statistics, errors, measures of central tendency. Correlation, probability distributions. Sequential data, trend detection, semivariograms. Analysis of spatial data, interpolation. Analysis of multivariate data.

STUDENT AND ACADEMIC SERVICES

Introduction to GIS and remote sensing.
Practising research in geology.

Teaching and Learning Methods: Scheduled learning on this module includes workshops, demonstrations, practical classes and field excursions.

Independent learning includes hours engaged with essential reading, completion of practical work, assignment preparation and completion. These sessions constitute an average time:

Activity:

Contact time (field and laboratory sessions): 72 hours

Fieldwork: 78 hours

Assimilation, development of knowledge and independent reading: 100 hours

Assessment preparation: 50 hours

Total study time: 300 hours

Students will receive, on average, 3 hours' contact time per week. This is essentially a practical and field-based module. Practical sessions will be introduced by short lectures and demonstrations and there will be a range of formats, including use of local field sites, laboratory, tutorial or computer-based sessions. The module also includes a residential field excursion where students will work on a range of projects relating to field geology, data collection and interpretation. One-to-one support will be provided during practical and field sessions and via email.

Part 3: Assessment

Summative assessment:

Component A:

Element 1 - Report: Dissertation proposal. Learning outcomes 1, 2, 7.

This report will help students prepare for their dissertation.

Literacy and engagement with academic literature will be assessed.

Element 2 - Field work. Learning outcomes 1 - 7.

Field work will be assessed during the residential field trip and students will incorporate a literature review/poster that they prepared prior to the trip.

Students will be able to demonstrate their understanding of geological processes and link this to field observations.

Practical work drawn from small group exercises and individual work completed during the residential field excursion will be used to investigate students' field observation skills, and skills in recording and interpreting sediments, rocks and structures in the field and developing a basin history.

Component B

Element 1 - Report. Learning outcomes 1 - 7.

This component will examine students' ability to deal with spatial data, make inferences using GIS and conduct a mini research project with the opportunity to decide on a research question and design a programme of research. Students will have the opportunity to demonstrate accurate collection of data, choice of methodology and presentation of field data and engagement with academic literature.

The report will assess students' organisational skills, clarity of presentation, scientific rigour of their research methodology and analysis of results.

Referral:

Component B of the referral is similar to Component B of the summative assessment.

Component A of the referral has only one element as a resit residential field trip is not possible. Component A of the referral is an extended mapping proposal. Literacy, engagement with academic literature, appropriate field methodology and research plan will be assessed

Formative work:

Component A – Students will receive feedback on their dissertation plans during class time. Only a selection of

STUDENT AND ACADEMIC SERVICES

the exercises that students complete on the fieldtrip contributes towards the summative assessment. Students will receive feedback after each exercise to improve performance.

Component B – Feedback will be given during practical sessions. Students will have the opportunity for feedback on the findings of their mini research projects during project tutorials.

First Sit Components	Final Assessment	Element weighting	Description
Field work - Component A	✓	35 %	Exercises before and during the residential field trip (2,000 words)
Report - Component A		25 %	Dissertation proposal (1,500 words max)
Report - Component B		40 %	Mini research project reports (2000 words)
Resit Components	Final Assessment	Element weighting	Description
Report - Component A	✓	60 %	Reworked research proposal
Report - Component B		40 %	Mini research project report (2000 words equivalent)

Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:	
	Module Learning Outcomes	Reference
	Search and gather information from a variety of sources and critically review academic literature	MO1
	Articulate relevant research questions and issues and produce insights, interpretations and solutions	MO2
	Process information and data collected in the field or laboratory, including use of ICT	MO3
	Work effectively within a group to conduct geological research	MO4
	Develop, evaluate and carry out a variety of methods in geological research	MO5
	Select and use appropriate statistical and graphical techniques for interpreting and comparing data collected in the field or laboratory	MO6
	Present the outcomes of field and laboratory study in professional-level oral, written and graphic (diagrams and maps) forms	MO7
Contact Hours	Independent Study Hours:	
	Independent study/self-guided study	150
	Total Independent Study Hours:	150
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	150

STUDENT AND ACADEMIC SERVICES

	Total Scheduled Learning and Teaching Hours:	150
	Hours to be allocated	300
	Allocated Hours	300
Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://uwe.rl.talis.com/modules/ubgmjn-30-2.html</p>	

Part 5: Contributes Towards	
<p>This module contributes towards the following programmes of study:</p> <p>Geology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2019-20</p> <p>Geology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2019-20</p>	