



MODULE SPECIFICATION

Part 1: Information			
Module Title	Understanding River Dynamics		
Module Code	UBGMLV-15-2	Level	Level 5
For implementation from	2019-20		
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		
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: Lecture topics: River catchment hydrology River channel flow hydraulics River channel sediment transport River catchment sediment supply Adjustment of river channel form Approaches to explanation with fluvial geomorphology</p> <p>Practical topics: Hydraulic analysis Field data collection Analysis of longitudinal changes in channel form Modelling of sediment dynamics</p>

STUDENT AND ACADEMIC SERVICES

Teaching and Learning Methods: Scheduled learning on this module includes lectures, practical classes and fieldwork.

Independent learning includes time engaged with essential reading, further reading, practical completion and assessment preparation and completion.

Students will receive – on average - 3 hours' contact time per week. This will be in a range of formats, including weekly keynote lectures, paper or computer-based practical sessions and fieldwork.

The amount of time spent on activities in this module is shown below in hours:

Contact time: 36

Assimilation and development of knowledge: 60

Exam preparation: 36

Coursework preparation: 18

Total study time: 150

Part 3: Assessment

Summative Assessment

Component A - Examination (1 hour). Learning outcomes 1-4:

Written examination.

Students will answer one unseen essay question from a selection.

Answers will be assessed according to the following criteria:

1. Relevance of the content of the essay to the question set
2. Grounding in literature, and use of evidence and supporting material
3. Clarity, coherence and depth of argument
4. Standards of literacy and presentation

Component B – Portfolio of practical work. Learning outcomes 5-6:

A selection of pieces of work drawn from practicals completed throughout the module.

Equivalent to 1500 words.

Portfolios will be assessed according to the following criteria:

1. Relevance of the content of the work to the question set
2. Depth of interpretation of data
3. Standards of literacy and presentation

Formative work

Component A – A selection of example examination questions will be available to students. They will have the opportunity to self-assess their ability to answer these by comparing them to benchmark answers that will also be made available.

Component B – Students will have the opportunity for feedback on each of the practical exercises during the scheduled contact sessions.

First Sit Components	Final Assessment	Element weighting	Description
Portfolio - Component B		50 %	Portfolio of practical work
Examination - Component A	✓	50 %	Examination (1 hour)

STUDENT AND ACADEMIC SERVICES

Resit Components	Final Assessment	Element weighting	Description
Portfolio - Component B		50 %	Portfolio of practical work
Examination - Component A	✓	50 %	Examination (1 hour)

Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th>Module Learning Outcomes</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Describe and explain a variety of process and form inter-relationships in natural river systems</td> <td>MO1</td> </tr> <tr> <td>Demonstrate a critical awareness of different ways of conceptualising natural river systems</td> <td>MO2</td> </tr> <tr> <td>Demonstrate a critical awareness of academic literature describing the functioning of natural river systems</td> <td>MO3</td> </tr> <tr> <td>Produce coherent written arguments describing the way that natural river systems function</td> <td>MO4</td> </tr> <tr> <td>Apply a range of field and practical techniques to describe natural river systems</td> <td>MO5</td> </tr> <tr> <td>Accurately and professionally present outputs from a range of field and practical techniques to describe natural river systems</td> <td>MO6</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Describe and explain a variety of process and form inter-relationships in natural river systems	MO1	Demonstrate a critical awareness of different ways of conceptualising natural river systems	MO2	Demonstrate a critical awareness of academic literature describing the functioning of natural river systems	MO3	Produce coherent written arguments describing the way that natural river systems function	MO4	Apply a range of field and practical techniques to describe natural river systems	MO5	Accurately and professionally present outputs from a range of field and practical techniques to describe natural river systems	MO6		
Module Learning Outcomes	Reference																
Describe and explain a variety of process and form inter-relationships in natural river systems	MO1																
Demonstrate a critical awareness of different ways of conceptualising natural river systems	MO2																
Demonstrate a critical awareness of academic literature describing the functioning of natural river systems	MO3																
Produce coherent written arguments describing the way that natural river systems function	MO4																
Apply a range of field and practical techniques to describe natural river systems	MO5																
Accurately and professionally present outputs from a range of field and practical techniques to describe natural river systems	MO6																
Contact Hours	<table border="1"> <thead> <tr> <th colspan="2">Independent Study Hours:</th> </tr> </thead> <tbody> <tr> <td>Independent study/self-guided study</td> <td>114</td> </tr> <tr> <td>Total Independent Study Hours:</td> <td>114</td> </tr> <tr> <th colspan="2">Scheduled Learning and Teaching Hours:</th> </tr> <tr> <td>Face-to-face learning</td> <td>36</td> </tr> <tr> <td>Total Scheduled Learning and Teaching Hours:</td> <td>36</td> </tr> <tr> <td>Hours to be allocated</td> <td>150</td> </tr> <tr> <td>Allocated Hours</td> <td>150</td> </tr> </tbody> </table>	Independent Study Hours:		Independent study/self-guided study	114	Total Independent Study Hours:	114	Scheduled Learning and Teaching Hours:		Face-to-face learning	36	Total Scheduled Learning and Teaching Hours:	36	Hours to be allocated	150	Allocated Hours	150
Independent Study Hours:																	
Independent study/self-guided study	114																
Total Independent Study Hours:	114																
Scheduled Learning and Teaching Hours:																	
Face-to-face learning	36																
Total Scheduled Learning and Teaching Hours:	36																
Hours to be allocated	150																
Allocated Hours	150																
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/modules/ubgmlv-15-2.html</p>																

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Geography [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19

Geology [Sep][SW][Frenchay][4yrs] BSc (Hons) 2018-19

Geography [Sep][SW][Frenchay][4yrs] BSc (Hons) 2018-19

Geology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19