Module Specification

Understanding River Dynamics

Version: 2028-29, v2.0, 05 Mar 2025

Contents

Part 1: Information

Module title: Understanding River Dynamics

Module code: UBGMLV-15-2

Level: Level 5

For implementation from: 2028-29

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Arts, Technology and Environment

School: CATE School of Architecture and Environment

Partner institutions: None

Field: Geography and Environmental Management

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module supports students to develop a detailed understanding of river processes and landforms whilst also developing spatial and academic skills.

Features: Module entry requirements: 60 credits at level 1

Educational aims: The purpose of this module is for students to understand the science behind key river processes, and be able to apply and understand practical methods that describe those processes.

Outline syllabus: This module will cover a range of theoretical topics and practical skills relating to river systems.

Theoretical topics may include the following:
- River catchment hydrology
- River channel flow hydraulics
- River channel sediment transport
- River catchment sediment supply
- Adjustment of river channel form

Practical skills may include:
- Prediction of river flood risk
- Field data collection
- Prediction of river channel adjustment
- Designing appropriate river channel form

Part 3: Teaching and learning methods

Teaching and learning methods: Students are supported on this module through a combination of recorded lectures, directed learning activities, and workshops that give them support with and feedback on their work.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Describe, explain, and provide peer-reviewed evidence for a range of processes that occur within river systems.

MO2 Apply, and accurately describe, a range of practical techniques to describe the processes that occur within river systems.

MO3 Accurately and professionally, present outputs from a range of practical techniques.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ubgmlv-15-2.html

Part 4: Assessment

Assessment strategy: The assessment on this module is designed to allow students to incrementally build up a portfolio of work, with the necessary work spread evenly across the semester.

Summative assessment:
Portfolio. A selection of pieces of work drawn from activities completed throughout the module.

Formative assessment:
Students will have the opportunity for feedback on each of the practical exercises during the scheduled contact sessions.

Assessment tasks:

Portfolio (First Sit)
Description: Portfolio
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3

Portfolio (Resit)
Description: Portfolio
Weighting: 100 %
Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Environment and Sustainability {Apprenticeship-UWE}[Frenchay] BSc (Hons) 2025-26

Environmental Management {Apprenticeship-UWE}[Frenchay] BSc (Hons) 2025-26