



## **Module Specification**

### **Applied Sedimentology**

Version: 2023-24, v3.0, 16 May 2023

#### **Contents**

<b>Module Specification .....</b>	<b>1</b>
<b>Part 1: Information .....</b>	<b>2</b>
<b>Part 2: Description .....</b>	<b>2</b>
<b>Part 3: Teaching and learning methods .....</b>	<b>3</b>
<b>Part 4: Assessment.....</b>	<b>4</b>
<b>Part 5: Contributes towards .....</b>	<b>5</b>

## Part 1: Information

**Module title:** Applied Sedimentology

**Module code:** UBGLF1-15-3

**Level:** Level 6

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Environment & Technology

**Department:** FET Dept of Geography & Environmental Mgmt

**Partner institutions:** None

**Field:** Geography and Environmental Management

**Module type:** Module

**Pre-requisites:** Sedimentary Environments and Palaeoecology 2021-22

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** Not applicable

**Features:** Not applicable

**Educational aims:** See Learning Outcomes

**Outline syllabus:** 1. Principal theories and concepts in sedimentology.

2. Climate and tectonic processes.

3. Sequence stratigraphy.

4. Basin analysis.
5. Diagenesis and geochemistry of sedimentary rocks.
6. Seismic interpretation, 2D & 3D.
7. Core analysis.

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** Scheduled learning on this module includes lectures, demonstrations 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 as indicated below.

Activity (Hours)

Contact time (lectures and laboratory sessions) (36)

Assimilation, development of knowledge and independent reading (65)

Exam preparation (24)

Coursework preparation (25)

Total study time (150)

Students will receive, on average, 3 hours contact time per week. This will be predominantly in the form of lectures/practicals that will cover the principles and processes related to hydrocarbon exploration and production. There will be practical sessions to enable students to revise and improve their recognition skills and knowledge of basin correlation.

There may also be local fieldwork or site visits. One-to-one support will be provided during practical sessions and via email.

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

**MO1** Articulate principle theories and concepts in sedimentology (Component A/B)

**MO2** Model and interpret sedimentological environments from field and data analysis (Component A/B)

**MO3** Appraise and implement analytical and graphical techniques to investigate sedimentary basins (Component A/B)

**MO4** Synthesise and apply sedimentological skills and knowledge to conduct a basin analysis project at a professional level (Component B)

**MO5** Demonstrate independent and critical engagement with academic literature (Component B)

**MO6** Demonstrate transferable skills including communication (oral, written and aural), team work, decision making, risk analysis, and time and project management (Component A/B).

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 114 hours

Tutorials = 36 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubgmq9-30-3.html) via the following link <https://uwe.rl.talis.com/modules/ubgmq9-30-3.html>

## **Part 4: Assessment**

**Assessment strategy:** Summative assessment:

Assessment Task - Company Report (2500 words). Learning outcomes 1-6.

Students will be able to demonstrate that they can bring multiple datasets together

and construct an argument and support it critically with references from academic literature.

Resit:

Assessment Task – Company Report (2500 words). Learning outcomes 1-6.

Formative work:

Formative work will be set weekly during practical and tutorial sessions for students' self assessment. Students will receive preparation exercises including discussions during tutorials for the summative assessment.

**Assessment tasks:**

**Report (First Sit)**

Description: 2500 word (or equivalent) based on given data for exploration / resource investment.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

**Report (Resit)**

Description: 2500 word (or equivalent) based on given data for exploration / resource investment.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Geology [Sep][FT][Frenchay][3yrs] - Not Running BSc (Hons) 2021-22

Geology [Sep][SW][Frenchay][4yrs] - Not Running BSc (Hons) 2021-22