



## **Module Specification**

### **Stratigraphy of the British Isles**

Version: 2023-24, v2.0, 25 Jul 2023

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## Part 1: Information

**Module title:** Stratigraphy of the British Isles

**Module code:** UBGMP-15-1

**Level:** Level 4

**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:** None

**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:** Principles of stratigraphy (bio-, litho-, chrono-).

Controls on sedimentation.

Basin analysis, plate tectonics and the British Isles.

Precambrian rocks and palaeogeography.

Palaeozoic rocks, palaeogeography and climate indicators.

Mesozoic rocks, palaeogeography and climate indicators.

Mass extinctions.

Cenozoic rocks, Tertiary and Quaternary events, tectonics and climate change.

Human impact and the Anthropocene.

Record of climate change over geological time in the British Isles.

Examination of rocks and fossils representing British Isles' stratigraphy.

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

**Teaching and learning methods:** Students will receive 3 hours' contact time per week. This will be predominantly in the form of workshops comprising a range of activities. Short lectures and demonstrations will introduce laboratory-based practical sessions involving geological and palaeogeographical maps, rock and fossil specimens. One-to-one support will be provided during practical sessions and via email.

Scheduled learning on this module includes lectures, demonstrations, field 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 and laboratory sessions): 36 hours

Assimilation, development of knowledge and independent reading: 74 hours

Exam preparation: 20 hours

Coursework preparation: 20 hours

Total study time: 150 hours

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

**MO1** Explain the principles of stratigraphy and how rocks are dated and correlated

**MO2** Demonstrate a broad knowledge of the palaeogeographic history of the British Isles and how this is interpreted from the rock record

**MO3** Identify areas of the British Isles that are associated with rocks of different ages and explain their occurrence in terms of climate factors and plate tectonics

**MO4** Demonstrate independent engagement with academic literature

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 114 hours

Face-to-face learning = 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/ubgmpp-15-1.html) via the following link <https://uwe.rl.talis.com/modules/ubgmpp-15-1.html>

## **Part 4: Assessment**

**Assessment strategy:** Summative assessment:

Assessment Task 1– Examination (2 hours). Learning outcomes 1-4.

The examination will have questions relating to the palaeogeographical evolution of the British Isles and how this has given rise to different strata during different geological periods.

Students will be expected to show their understanding of the principles of stratigraphy and plate tectonics in their answers.

Assessment Task 2 – Illustrated case study report. Learning outcomes 1-4.

This will enable students to investigate a particular geological period in detail and demonstrate their understanding of how that period is reflected in British Isles geology.

This exercise will be built up during practical sessions and students will receive formative assessment throughout.

Formative work:

Formative work will be set weekly during practical sessions for students' self assessment. Formative work will be an integral part of the reading strategy. Students will receive preparation exercises for the summative assessment that may include a mock exam.

**Assessment tasks:**

**Examination** (First Sit)

Description: Examination (2 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Report** (First Sit)

Description: Report (1000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Examination (Resit)**

Description: Examination (2 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

**Report (Resit)**

Description: Report (1000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested:

**Part 5: Contributes towards**

This module contributes towards the following programmes of study: