



Module Specification

Geological Maps

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Part 1: Information

Module title: Geological Maps

Module code: UBGMMP-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: Horizontal and dipping strata, bed thickness.

Structure contours, true and apparent dip, inliers, outliers.

Three point problems, borehole data.

Unconformities, overstep, overlap.

Geological structures on maps.

Geological cross sections.

Igneous features, complex structures.

Interpreting geological history from maps.

Creating a geological map from field data.

Part 3: Teaching and learning methods

Teaching and learning methods: Students will receive, on average, 3 hours' contact time per week. This is a practical and field-based module so the contact time will be predominantly in the form of workshops, where students will examine geological maps, and local field work where mapping techniques will be demonstrated. There will be a residential field excursion for students to complete a geological mapping exercise. One-to-one support will be provided during practical and field sessions and via email.

Scheduled learning on this module includes short lectures, demonstrations, field work 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, field and laboratory sessions): 50 hours

Assimilation, development of knowledge and independent reading: 60 hours

Preparation of assessment: 40 hours

Total study time: 150 hours

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

MO1 Interpret geological history from a geological map

MO2 Identify geological structures on maps

MO3 Draw geological cross sections to represent underlying strata and structures

MO4 Create a simple geological map in the field

MO5 Demonstrate independent engagement with academic literature

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 100 hours

Face-to-face learning = 50 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/ubgmmp-15-1.html) via the following link

<https://uwe.rl.talis.com/modules/ubgmmp-15-1.html>

Part 4: Assessment

Assessment strategy: Summative assessment:

Component A – Mapping project. Learning outcomes 1-5.

Students will carry out a supervised individual field mapping exercise.

They will be expected to demonstrate that they can recognise and record rocks and structures in the field.

Students will be able to demonstrate their skills in producing an accurate representation of the geology of an area in map form and that they can extrapolate

surface information in order to produce a geological cross section.

In the interpretative report accompanying the map students will be able to demonstrate their understanding of geological processes and engagement with academic literature.

This exercise will prepare students for the independent mapping component of their final year project.

Formative work:

Formative work will be set during practical and field sessions for students' self assessment. Formative work will be an integral part of the reading strategy in relation to interpreting geological history. Students will receive formative feedback on map work exercises throughout the module in preparation for the summative assessment.

Assessment tasks:

Final Project - Component A (First Sit)

Description: Mapping project (2500 words or equivalent)

Weighting: 100 %

Final assessment: Yes

Group work: No

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

Final Project - Component A (Resit)

Description: Mapping project (2500 words or equivalent)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

