



## **Module Specification**

### **Environmental Challenges**

Version: 2021-22, v2.0, 19 Jul 2021

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## **Part 1: Information**

**Module title:** Environmental Challenges

**Module code:** UBGLXD-30-1

**Level:** Level 4

**For implementation from:** 2021-22

**UWE credit rating:** 30

**ECTS credit rating:** 15

**Faculty:** Faculty of Environment & Technology

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

**Partner institutions:** None

**Delivery locations:** Frenchay Campus

**Field:** Geography and Environmental Management

**Module type:** Standard

**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 will introduce you to the science behind key environmental challenges that face humankind during the 21st century.

**Features:** Not applicable

**Educational aims:** See Learning Outcomes

**Outline syllabus:** This module will involve the study of the science behind various key environmental challenges, which may include:

Climate change

Soil use and management

Ecological challenges

Pollution

Flooding

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

**Teaching and learning methods:** The module will be taught using a combination of lectures and computer practical workshops and assessed using a combination of written exams and a practical portfolio. The lectures will be used to teach the theoretical content of the module, which will be assessed by the written exams. The computer practical workshops will be used to teach a range of GIS and remote sensing techniques, which will be assessed by the practical portfolio.

#### **Module Learning outcomes:**

**MO1** Demonstrate an understanding of the science behind some key environmental challenges facing humankind in the 21st century

**MO2** Support their understanding of key environmental challenges with evidence from peer-reviewed literature

**MO3** Communicate complex arguments about key environmental challenges in written form

**MO4** Analyse data describing environmental challenges through the appropriate use of GIS and remote sensing techniques

**MO5** Effectively communicate data describing key environmental change through the appropriate use of GIS and remote sensing techniques

**Hours to be allocated:** 300

**Contact hours:**

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubglxd-30-1.html) via the following link <https://uwe.rl.talis.com/modules/ubglxd-30-1.html>

## Part 4: Assessment

**Assessment strategy:** The module is assessed by two components. Both Component A and Component B are weighted at 50%.

The module will be taught using a combination of lectures and computer practical workshops and assessed using a combination of written exams and a practical portfolio. The lectures will be used to teach the theoretical content of the module, which will be assessed by the written exams. The computer practical workshops will be used to teach a range of GIS and remote sensing techniques, which will be assessed by the practical portfolio.

### Component A

Element 1: Written exam. End of Teaching Block 1. Learning outcomes 1-3.

Element 2: Written exam. End of Teaching Block 2. Learning outcomes 1-3.

The exams will test the students' understanding of the processes that shape the surface of the earth, their ability to support this knowledge with evidence from peer-reviewed literature, and their ability to communicate that knowledge in written form.

Students will have the opportunity to receive formative feedback on their preparations for the exam within scheduled revision sessions.

### Component B

Portfolio of practical work (equivalent to 3000 words). Learning outcomes 4 and 5.

The practical portfolio will test the students' ability to perform the GIS and remote sensing techniques taught during the computer practical workshops.

Students will have opportunities to receive formative feedback on the practical outputs they produce during the scheduled computer practical workshops.

#### Resit information

Students who fail the module at the first attempt will be required to re-sit the exams as a single examination and/or re-submit their practical portfolio as appropriate.

#### **Assessment components:**

##### **Examination (Online) - Component A (First Sit)**

Description: Online Exam (24 hours)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3

##### **Examination (Online) - Component A (First Sit)**

Description: Online Exam (24 hours)

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

##### **Portfolio - Component B (First Sit)**

Description: Portfolio of practical work (equivalent to 3000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO4, MO5

**Examination (Online) - Component A (Resit)**

Description: Online Re-sit exam (24 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

**Portfolio - Component B (Resit)**

Description: Re-sit portfolio of practical work (equivalent to 3000 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO4, MO5

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Environmental Management [Sep][SW][Frenchay][4yrs] BSc (Hons) 2021-22

Environmental Management [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Environmental Management {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons)  
2020-21

Environmental Management {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons)  
2020-21

Environmental Management and Practice {Foundation} [Feb][FT][GCET][4yrs] BSc  
(Hons) 2020-21

Environmental Management and Practice {Foundation} [Oct][FT][GCET][4yrs] BSc  
(Hons) 2020-21