



Module Specification

Air Quality Management

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Part 1: Information

Module title: Air Quality Management

Module code: UBGMW7-15-M

Level: Level 7

For implementation from: 2026-27

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 covers an introduction to air quality management, focusing on pollutants of concern, their sources and health effects, ways of monitoring and modelling air pollution and the implications of air quality assessment in land use planning arising from new developments, as well as mitigation strategies and air quality action plans.

Features: Module Entry Requirements: Standard entry requirements if taken as credit-bearing standalone module. CPD only (i.e. without assessment) is not credit bearing so no entry requirements necessary.

Educational aims: The educational aims of the module are to provide a holistic approach to air quality management, that introduce core concepts and breadth of understanding, underpinned with the latest research, to contextualise topics on assessment methods (monitoring and modelling) and policy and management (air quality considerations in planning, development of air quality action plans). The theoretical knowledge is embedded through technical practicals (using for example Excel, ADMS-Roads) and non-technical practicals (reviewing air quality assessments, role playing action plan steering groups). The knowledge, arguments and practical skills developed studying this module would prepare students to work as, or with, air quality officers in local or national government, or to undertake air quality consultancy.

Outline syllabus: Topics include:

Air Quality Management

Air Quality Monitoring

Air Quality Dispersion Modelling

Air Quality and Development Management

Air Quality Action Planning.

Part 3: Teaching and learning methods

Teaching and learning methods: The module is run by research active air quality experts, ensuring students benefit from first-hand experience and cutting-edge material and insights.

Teaching and learning methods will comprise of a combination of seminars, class discussions, IT practicals (using Excel and ADMS Roads dispersion modelling software), and group work practicals, including role-play), to help to consolidate the theoretical content.

Lectorials are matched with tutorial sessions to help support students to use their learning to work towards their assessments.

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

MO1 Demonstrate a critical understanding of national and local air quality policy and management and the different sources and effects of selected air pollutants.

MO2 Demonstrate a critical understanding of methods of assessing air quality.

MO3 Demonstrate a critical understanding of actions and measures to improve air quality.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 112.5 hours

Face-to-face learning = 37.5 hours

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

Part 4: Assessment

Assessment strategy: The Assessment:

Case Study (2500 words) - will be a case study evaluation, enabling the student some freedom over their choice of case study. The assessment will test the student's skills of critical evaluation as well as their knowledge of local government air quality responsibilities, and will also enable them to contextualise the real-world application of their learning together with the challenges that that entails.

Formative feedback will be provided on early draft assessments and the tutorial sessions will provide an opportunity for further clarification of learning materials in the context of the assessment.

Resit Case Study - as above, but without the opportunity for formative feedback.

The assessment intrinsically embeds UWE's principles of Sustainable Development within the subject matter.

Assessment tasks:

Case Study (First Sit)

Description: Case study (2500 words)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Case Study (Resit)

Description: Case study (2500 words)

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:

Environmental Management [Frenchay] WITHDRAWN MSc 2026-27

Environmental Management [Frenchay] WITHDRAWN MSc 2026-27

Environmental Consultancy [Frenchay] MSc 2025-26

Environmental Consultancy [Frenchay] MSc 2025-26

Environmental Consultancy [Frenchay] WITHDRAWN MSc 2026-27

Environmental Consultancy [Frenchay] WITHDRAWN MSc 2026-27

MSc Environmental Management and Consultancy [Frenchay] MSc 2026-27

Environmental Consultancy [Frenchay] MSc 2025-26