



## **Module Specification**

### **Quantitative Health and Care Research**

Version: 2024-25, v1.0, 26 Jul 2024

#### **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>4</b>
<b>Part 4: Assessment.....</b>	<b>5</b>
<b>Part 5: Contributes towards .....</b>	<b>6</b>

## Part 1: Information

**Module title:** Quantitative Health and Care Research

**Module code:** UZYYNR-15-M

**Level:** Level 7

**For implementation from:** 2024-25

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**College:** College of Health, Science & Society

**School:** CHSS School of Health and Social Wellbeing

**Partner institutions:** None

**Field:** Allied Health Professions

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** Yes

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

## Part 2: Description

**Overview:** This module provides an introduction to and critical examination of quantitative approaches in health and care research. It explores the key features of quantitative investigations by examining key terminology, ideas, and concepts in quantitative methodology. The module equips learners with the quantitative methods and skills necessary to undertake primary research and interpret published primary and secondary research.

Quantitative research addresses a wide range of research questions related to: prevalence and characteristics of health and illness (including disability), studying risk factors, refining methods for diagnosis and measurement in health, and evaluating the efficacy or effectiveness of different interventions designed to improve health and wellbeing. The module explores how these quantitative research skills are beneficial to a wide range of health and care professionals.

**Features:** Not applicable

**Educational aims:** This module aims to equip learners with the knowledge, skills, and critical thinking abilities to effectively engage with quantitative research methodologies in health and care research. Specifically, the module will enable learners to:

1. Develop a strong foundation in the principles and methods used in epidemiology and quantitative health research, enabling critical evaluation of their application.
2. Equip students with the skills to critically appraise quantitative research for quality and rigor, enabling them to effectively evaluate health and care research evidence.
3. Enable students to understand, interpret, and perform basic statistical analyses (inferential statistics) in both primary research and quantitative synthesis (meta-analysis).
4. Develop the critical thinking skills that would inform designing effective quantitative research projects, including both primary and secondary studies.

**Outline syllabus:** The syllabus typically covers the following:

Types of quantitative research questions

Overview of the characteristics, strengths, and limitations of quantitative designs

Methodological quality and sources and types of data in health and social care.

Threats to internal validity in quantitative designs and how to minimise them.

Outcome measurement

Quantitative analysis in primary studies and quantitative synthesis

Inferential analysis (types of statistical tests).

Critical appraisal of quantitative research

Reporting quantitative evidence

### Part 3: Teaching and learning methods

**Teaching and learning methods:** This module adopts a blended learning approach, combining interactive lectures and seminars with group activities to foster a collaborative learning environment and provide practice experience. Student learning is supported by online materials and activities.

Interactive activities will build knowledge and understanding through active learning. These sessions will help students clarify and reinforce their knowledge, interpret and critique published evidence, and actively engage in problem-solving exercises.

Online resources include recorded lectures, instructional videos, podcasts, statistical software, survey platforms, and open-source datasets.

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

**MO1** Demonstrate critical understanding of the principles and methods utilised in quantitative health and care research, and critical appraisal of quantitative evidence.

**MO2** Demonstrate understanding and interpretative skills of common statistic analyses used in primary research and quantitative synthesis (meta-analysis).

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 0

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/A1180857-BBCA-5682-9AFE-A4FFFD8EBC75.html) via the following link <https://rl.talis.com/3/uwe/lists/A1180857-BBCA-5682-9AFE-A4FFFD8EBC75.html>

## Part 4: Assessment

**Assessment strategy:** The assessment will comprise of one task, a two-hour in-class test to assess students' knowledge and understanding of quantitative research concepts and techniques. This test will include a structured critical appraisal of an abridged research paper and interpretation of statistical results.

The assessment method allows for exploring breadth of knowledge and understanding of quantitative research methods and in-depth critical evaluation in a focused area. Full details of the task structure, including weighting and grading criteria, will be published in the module handbook at the start of the module.

### Formative Assessment and Support:

Formative assessment through group work, individual exercises, and topic-specific activities will monitor progress. Formative exercises are not graded but are designed to enhance students' confidence in achieving the learning outcomes. The exercises will include short multiple-choice quizzes and structured critical appraisals. Students are encouraged to identify their own learning needs, which can be addressed within contact hours. Tutor support will be available throughout the module, both in person and online.

### Assessment tasks:

#### **In-class test (First Sit)**

Description: A two-hour in-class test.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

#### **In-class test (Resit)**

Description: A two-hour in-class test.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

### **Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Health and Care Research MRes 2024-25

Health and Care Research MRes 2024-25