



Module Specification

Research Methods

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Part 1: Information

Module title: Research Methods

Module code: USSYQE-45-2

Level: Level 5

For implementation from: 2025-26

UWE credit rating: 45

ECTS credit rating: 22.5

College: College of Health, Science & Society

School: CHSS School of Applied Sciences

Partner institutions: None

Field: Applied Sciences

Module type: Module

Pre-requisites: Foundations of Mathematics and Statistics 2025-26

Excluded combinations: None

Co-requisites: None

Continuing professional development: Yes

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module provides learners with fundamental scientific research skills.

Pre-requisites: Students must have passed USSJQW-15-1 Foundations of Mathematics and Statistics before starting this module.

Features: Not applicable

Educational aims: The overall aims of this module are to equip learners with the ability to design and conduct research projects, especially in healthcare science.

Outline syllabus: The indicative syllabus of this module is:

- Research design
- Data analysis
- Statistical inference
- Spreadsheet/statistical software
- Qualitative methods
- Audits and service evaluations
- Systematic reviews
- Risk assessment
- Research ethics

Example applications to healthcare science are used throughout.

Part 3: Teaching and learning methods

Teaching and learning methods: The module will be delivered via the following teaching and learning methods:

- prework (reading, exercises)
- live online lectorial sessions (including discussion and problem solving)
- on campus block sessions (including computer based activities)

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

MO1 Design research proposals and outline the key steps for implementation.

MO2 Select the appropriate qualitative or quantitative methods to analyse research data.

MO3 Use spreadsheet and statistical software to analyse data and conduct statistical testing.

MO4 Interpret the results of statistical testing and summarise in clear language accessible to non experts.

MO5 Understand how to conduct a systematic review.

MO6 Understand research ethics processes for informed consent and approval.

Hours to be allocated: 450

Contact hours:

Independent study/self-guided study = 150 hours

Face-to-face learning = 60 hours

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ussyqe-45-2.html) via the following link <https://uwe.rl.talis.com/modules/ussyqe-45-2.html>

Part 4: Assessment

Assessment strategy: Assessment 1: Portfolio (4, 30 minute online tests)

Problem solving exercises, including calculations, data analysis and interpretation, generation of graphical representation of data; this will allow learners to demonstrate the skills and knowledge acquired. This assessment will be administered through a smart computer-based platform, which automatically randomises and personalises questions; this prevents plagiarism and collusion.

Learners will be supported to succeed through the provision of example assessments comprising of automatic personalised feedback, as well as any additional guidance from teaching staff as requested.

Assessment 2: Written Assignment (1000 words)

A written assignment, which will allow learners to apply the research skills acquired in the module to the development of a project proposal in the healthcare science area. Learners will be supported to succeed through regular group drop-ins, the provision of examples and frequently asked questions, as well as individual guidance as required.

Assessment tasks:

Portfolio (First Sit)

Description: The assessment consists of a portfolio of four 30 minute online tests.

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4, MO5, MO6

Written Assignment (First Sit)

Description: The assessment consists in writing a project proposal (1000 words)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

Portfolio (Resit)

Description: The assessment consists of a portfolio of four 30 minute online tests.

Weighting: 60 %

Final assessment: No

Group work: No

Learning outcomes tested: MO3, MO4, MO5, MO6

Written Assignment (Resit)

Description: The assessment consists in writing a project proposal (1000 words)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Healthcare Science (Nuclear Medicine) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Radiation Physics) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Radiotherapy Physics) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Medical Engineering) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Radiation Engineering) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Rehabilitation Engineering) {Apprenticeship-UWE} [Frenchay]
BSc (Hons) 2024-25

Healthcare Science (Renal Technology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Cardiac Physiology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25

Healthcare Science (Respiratory & Sleep Physiology) {Apprenticeship-UWE}
[Frenchay] BSc (Hons) 2024-25

Healthcare Science (Neurophysiology) {Apprenticeship-UWE} [Frenchay] BSc
(Hons) 2024-25