

Liverpool John Moores University

Title: RESEARCH METHODS 2
Status: Definitive
Code: **5104SPOSCI** (123204)
Version Start Date: 01-08-2021

Owning School/Faculty: Sport and Exercise Sciences
Teaching School/Faculty: Sport and Exercise Sciences

Team	Leader
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Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 44.5
Total Learning Hours: 200 **Private Study:** 155.5

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	19
Practical	7
Tutorial	5
Workshop	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Portfolio - design, methods and data interpretation	50	
Exam	AS2	Examination - design, methods and data interpretation	50	1.5

Aims

The module aims to develop an understanding of the key issues and concepts

underpinning different types of research. This will include a development of both quantitative and qualitative research methods as well as data analysis procedures.

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate research design and methods.
- 2 Apply and interpret data analysis approaches and procedures.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Portfolio	1	2
Examination	1	2

Outline Syllabus

Strategies of research: qualitative, descriptive and experimental.

Validity and reliability of research methods.

Advanced statistical procedures

Ethics and informed consent.

Learning Activities

Students receive lectures on all topics covered in the module. Lectures will be supported by workshop and practical sessions where appropriate. Students will be able to critique their understanding at specific time points by completing formative tests.

Notes

The module aims to develop an understanding of the key issues and concepts underpinning different types of research. This will include a development of both quantitative and qualitative research methods as well as data analysis procedures.

The Association for Nutrition (AfN) competencies covered in this module include:

CC1I - Ability to plan, conduct, analyse and report on investigations into an aspect of nutrition in a responsible, safe and ethical manner

CC1m - Ability to carry out sample selection and to ensure validity, accuracy, calibration, precision, replicability and highlight uncertainty during collection in accordance with the basic principles of good clinical practice.

CC1n - Ability to obtain, record, collate, analyse, interpret and report nutrition-related data using appropriate qualitative and quantitative research and statistical methods in the field and/or laboratory and/or intervention studies, working individually or in a

group, as is most appropriate for the discipline under study.

CC1o - Prepare, process, interpret and present data, using appropriate qualitative and quantitative techniques, statistical programmes, spreadsheets and programs for presenting data visually.

CC1p - Health research methods, dietary nutrition methodologies and nutritional epidemiology for either human or animal systems.

The BASES Undergraduate Endorsement (BUES) criteria covered in this module include:

4.1.1 The value of research, and principles & applications of scientific enquiry

4.1.2 Appropriate research ethics & governance training

4.1.3 A range of qualitative and quantitative research methodologies

4.1.4 Use of appropriate data analysis & visualisation techniques

4.1.5 Evidence-based practice and evaluation