

## Module specification

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Module Code	PSYON705
Module Title	Quantitative Research Methods
Level	7
Credit value	15
Faculty	Faculty of Social and Life Sciences
HECoS Code	100959
Cost Code	GAPS

## Programmes in which module to be offered

Programme title	Is the module core or option for this programme
MSc Psychology	Core
MSc Forensic Psychology	Core
MSc Educational Psychology	Core

## Pre-requisites

None

## Breakdown of module hours

Learning and teaching hours	15 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
<b>Total active learning and teaching hours</b>	<b>15 hrs</b>
Placement / work based learning	0 hrs
Guided independent study	135 hrs
<b>Module duration (total hours)</b>	<b>150 hrs</b>

For office use only	
Initial approval date	18.5.2021



<b>For office use only</b>	
With effect from date	September 2021
Date and details of revision	September 2024 – AM0 updated Indicative Tasks section with implementation from Sept 2024
Version number	2

## Module aims

The aim of this module is to provide students with the knowledge and understanding to approach quantitative methods and analysis in psychology. Students will be presented with an overview of core topics and analysis techniques through structured tasks and lectures.

## Module Learning Outcomes - at the end of this module, students will be able to:

1	Critically appraise philosophical approaches to research methods & statistics and their implications for research practice
2	Critically evaluate the advantages and disadvantages of key research method approaches and designs in psychology
3	Select, identify, and apply a range of core data analysis techniques to appropriate data and research questions.
4	Demonstrate ethical awareness and understanding in relation to psychological research.

## Assessment

Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

A portfolio of tasks related to core topics will form the basis of this module to give a rounded perspective of core quantitative research methods and statistics in psychology. Portfolios will be constructed using a combination of:

- Data analysis, reporting, and interpretation tasks
- Critical appraisal tasks

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1, 2, 3, 4	Portfolio	100



## Derogations

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None

## Learning and Teaching Strategies

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The overall learning and teaching strategy will include a series of lectures covering core concepts, with accompanying practical exercises and walkthroughs that will prepare students to tackle portfolio tasks. Students will develop a familiarity with modern, accessible software for data analysis.

## Indicative Syllabus Outline

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- Philosophical and Ethical Underpinnings in Psychological Research
- Quantitative Research Methods & Evidence appraisal
- Working with data
- General Linear Model I
- General Linear Model II
- Generalized Linear Model

## Indicative Bibliography:

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Please note the essential reads and other indicative reading are subject to annual review and update.

### Essential Reads

Warne, R. T., (2017) *Statistics for the Social Sciences: A General Linear Approach*. Cambridge University Press.

### Free, core resources

British Psychological Society (2014). *Code of Human Research Ethics*. BPS

British Psychological Society (2017). *Ethics Guidelines for Internet-Mediated Research*. BPS

British Psychological Society (2018). *BPS Code of Ethics and Conduct*. BPS

Cuttler, C., Jhangiani, R. S., & Leighton, D.C. (2019). *Research methods in psychology* [4<sup>th</sup> ed.]. [Open-access link](#)

### Other indicative reading

#### Journals

Behavior Research Methods

Research Methods in Medicine and Health Sciences

International Journal of Quantitative and Qualitative Research Evaluation

Educational and Psychological Measurement

Cross-Cultural Research

Journal of Empirical Research on Human Research Ethics

Journal of Mixed Methods Research

## Employability – the University Skills Framework

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Each module and degree programme are designed to support learners as they develop their graduate skills aligned to the University Skills Framework.

Using the philosophies of the Active Learning Framework (ALF) our 10 skills are embedded within programmes complementing core academic subject knowledge and understanding.

Through continuous self-assessment students own their individual skills journey and enhance their employability and career prospects.

This Module forms part of a degree programme that has been mapped against the University Skills Framework.

**The Wrexham University Skills Framework Level Descriptors: An incremental and progressive approach.**

Learners can use this document to identify where and how they are building skills and how they can develop examples of their success.