

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
Module Leader	Dr Joshua Payne
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
Total active learning and teaching hours	15 hrs
Placement / work based learning	0 hrs
Guided independent study	135 hrs
Module duration (total hours)	150 hrs

For office use only	
Initial approval date	18.5.2021
With effect from date	September 2021
Date and details of revision	
Version number	1

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:

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:

- Multiple choice and short answer questions
- 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

None

Learning and Teaching Strategies

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

- 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:

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* [4th ed.]. [Open-access link](#)

Indicative 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 skills – the Glyndŵr Graduate

Each module and programme is designed to cover core Glyndŵr Graduate Attributes with the aim that each Graduate will leave Glyndŵr having achieved key employability skills as part of their study. The following attributes will be covered within this module either through the content or as part of the assessment. The programme is designed to cover all attributes and each module may cover different areas.

Core Attributes

Engaged

Enterprising

Creative

Ethical

Key Attitudes

Commitment

Curiosity

Resilience

Confidence

Adaptability

Practical Skillsets

Digital Fluency

Organisation

Leadership and Team working

Critical Thinking

Emotional Intelligence

Communication