

PS215-15 Further Methods in Psychology

22/23

Department

Psychology

Level

Undergraduate Level 2

Module leader

James Adelman

Credit value

15

Module duration

10 weeks

Assessment

30% coursework, 70% exam

Study location

University of Warwick main campus, Coventry

Description

Introductory description

An integrated approach to conceptual, design and practical statistical aspects of research methods in Psychology.

[Module web page](#)

Module aims

The module will consolidate and extend your skills and understanding of issues in research methods that affect you as a producer (doing projects) and consumer (reading journal articles) of research.

Specific aims are:

- to prepare students to carry out psychology projects in their second and third year;
- to meet core training and accreditation requirements in psychology;
- to teach students how to analyse and present data; and
- to familiarise students with issues affecting the soundness of evidence in psychological research.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Review of NHST incl. Power for simple case; Choosing tests and data screening; Counterbalancing, randomization and multi-trial-per-condition experiments; Extensions to >2 levels; Two-factor designs, moderation/interactions, simple effects; Higher-order designs; Correlation, regression, multiple regression; Data quality; extensions of regression; Qualitative Methods; Ethical issues

Learning outcomes

By the end of the module, students should be able to:

- to explore a data set and systematically test hypotheses about the data
- to evaluate the suitability of data for analyses and understand techniques to attenuate problems of data quality
- to present the results of data analysis clearly and concisely
- to understand methodological issues that affect internal validity
- to understand and discuss basic ethical considerations relating to psychological research
- to perform and report some qualitative analyses

Indicative reading list

Howell, D. C. (2008). *Fundamental statistics for the behavioral sciences* (6th ed.). Belmont, CA: Thomson Wadsworth. (or a more recent edition of this text)

Brace, N., Kemp, R., & Snelgar, R. (2006). *SPSS for Psychologists*. (3rd Edition). New York: Palgrave MacMillan.

Howell, D. C. (2007). *Fundamental statistics for the behavioral sciences* (6th ed.). Belmont, CA: Thomson Wadsworth.

Pallant, J. (2007). *SPSS survival manual*. Buckingham: Open University Press.

Tabachnick, B. G., and Fidell, L. S. (2006). *Using multivariate statistics* (5th Edition). Needham Heights, MA: Allyn & Bacon.

[View reading list on Talis Aspire](#)

Subject specific skills

understanding of the principles of psychological research, different methods of research and the principles of qualitative methods.

Transferable skills

critical analysis, formulation and testing of hypotheses
written communication skills;

use of SPSS.

Study

Study time

Type	Required	Optional
Lectures	10 sessions of 1 hour (7%)	
Seminars	2 sessions of 1 hour (1%)	
Practical classes	8 sessions of 1 hour (5%)	8 sessions of 1 hour
Online learning (independent)	8 sessions of 1 hour (5%)	8 sessions of 30 minutes
Assessment	122 hours (81%)	
Total	150 hours	

Private study description

No private study requirements defined for this module.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Students can register for this module without taking any assessment.

Assessment group D1

	Weighting	Study time
Homework practice sheets	10%	40 hours
Online homework worksheets for quantitative lectures supported by practical classes, leading to the exam. Delivered via the method.psych.warwick.ac.uk system to accommodate types of questions/answers not supported by standard systems. Assessed with low weighting (despite time required) to reflect their role as practice.		
Qualitative Assessment Group Work in groups of 4 or 5	20%	26 hours
Online Examination	70%	56 hours

Weighting

Study time

Questions in similar formats to the homework sheets.

- Online examination: No Answerbook required

Feedback on assessment

Homework feedback will be composed of automated feedback for questions marked automatically, augmented by group feedback as online recording.

Standard written feedback on groupwork report for qualitative section.

Group exam feedback discussing issues affecting multiple questions across the question pool.

[Past exam papers for PS215](#)

Availability

Pre-requisites

To take this module, you must have passed:

- All of
 - [PS113-12 Statistical Methods in Psychology](#)
 - [PS114-18 Research Methods in Psychology](#)

Courses

This module is Core for:

- Year 2 of UPSA-C800 Undergraduate Psychology
- Year 2 of UPSA-C804 Undergraduate Psychology with Education Studies
- Year 2 of UPSA-C802 Undergraduate Psychology with Linguistics