

Module Specification

Module Summary Information

1	Module Title	Advanced Statistics
2	Module Credits	20
3	Module Level	6
4	Module Code	PSY6015

5	Module Overview
<p>This module is designed to deepen understanding of the fundamental and ongoing debates surrounding good research and statistical practice in psychology as well as provide an introduction to more advanced methods of statistical analyses and associated software packages. The module will continue to develop key transferable skills from Levels 4 and 5, such as IT skills, critical evaluation and evidence-based reasoning. During this module, you will build on key statistical skills learnt at Levels 4 and 5 (in particular, multiple regression) and learn how these can be used to address specific kinds of hypotheses. You will also be introduced to statistical software packages in addition to SPSS. Finally, you will develop your understanding of null-hypothesis significance testing and its alternatives, which will contribute to debates about best research practice in psychology.</p>	

6	Indicative Content
<p>In this module, you will learn about advanced statistics techniques and analysis packages. For example, you will begin to learn to work with different analysis programs, such as the use of the open source software R which is seeing increasing usage amongst psychological researchers. You will also gain experience in using more advanced forms of analysis than you may experience in the core modules. For example, you will explore using more complex forms of multiple regression than you have previously. You will also learn new techniques, such as mediation and moderation analysis, ANCOVA, and Bayesian statistics.</p>	

7	Module Learning Outcomes	
	On successful completion of the module, students will be able to:	
	1	Appraise the appropriate application and use of standard and advanced statistical techniques in Psychology.
	2	Critically evaluate current and historical research practices in Psychology.
	3	Demonstrate an ability to integrate critiques to inform best practice and integrity in psychological research.
	4	Interpret the outcome of standard and advanced statistical techniques.

8	Module Assessment		
Learning Outcome			
	Coursework	Exam	In-Person
1-4	X		

9	Breakdown Learning and Teaching Activities	
Learning Activities	Hours	
Scheduled Learning (SL) includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	44	
Directed Learning (DL) includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	26	
Private Study (PS) includes preparation for exams	130	
Total Study Hours:	200	