

Weekly Planner 2019-2020
M7X01449 - Applied Research Ethics and Analysis (AREA)

Date	Session 1: 2pm-4.30pm	Session 2: 5.30pm-8pm
3 rd Oct	Introduction to the module and Understanding quantitative data 1 Lecturer: Dr Kate Williams This lecture will introduce students to the module and provide an overview of qualitative and quantitative methods in applied research, before focusing on some of the key critiques and challenges of applied research. We will then move on to specifically discuss different types of quantitative data. Students will be expected to understand the concepts of central tendency and the normal distribution prior to this session. We will then start to explore parametric and non-parametric data, inferential statistics, and assumptions for statistical analyses. We will then consider why the normal distribution is rarely seen in applied research and consider the implications for data analysis.	Understanding quantitative data 2 Lecturer: Dr Kate Williams We will review some of the basic common statistical techniques seen in psychology and consider their application to applied psychology. Students will then be introduced to SPSS and its role in supporting the collection, management and analysis of data. Using SPSS, we will then specifically work through conducting t-tests and linear regression.
10 th Oct	Choosing and managing scale data Lecturer: Dr Kate Williams We will discuss the importance of choosing psychometrically robust measures for applied research design, introducing longitudinal designs, randomised controlled trials and the notion of prediction.	Data management and SPSS Lecturer: Dr Kate Williams In this workshop we will introduce complex datasets and students will familiarise themselves with how to manage different types of data in SPSS. This SPSS workshop will teach students how to prepare data for different types of analysis, including screening and cleaning datasets, creating sub-scales and scale scores and conducting reliability analyses. At the end of this session, we will also run through a mock practice example of the first in-class practical assessment, and discuss how elements from the first two weeks of the module will come together in order to prepare students for the assessment.
17 th Oct	Students to attend the Public Health Wales Conference at the International Convention Centre (ICC), Newport.	Students to attend the Public Health Wales Conference at the International Convention Centre (ICC), Newport.

24th Oct	<u>Practical In-class skills assessment 1</u> Lecturer: Dr Kate Williams Using SPSS and through the completion of a worksheet, you will be assessed on data inputting and screening, creation of sub-scales, reverse-coding, reliability, and conducting an appropriate analysis on the data.	Workshop: Multiple Regression Lecturer: Dr Kate Williams In this workshop students will be able to gain hands on experience in exploring prediction through multiple regression. We will also run through details for your quantitative multiple regression results report write-up assessment.
W/C 28th Oct	Reading week – no lectures	
7th Nov	Introduction to Analysis of Variance (ANOVA) Lecturer: Dr Kate Williams We will now start to look at more complex statistical designs in applied research; in particular, we will focus on analysis of variance.	Workshop: ANOVA Lecturer: Dr Kate Williams In this SPSS workshop, students will practice preparing and analysing data using ANOVA. We will also run through details for your quantitative ANOVA results report write-up assessment.
14th Nov	Making sense of statistical significance Lecturer: Dr Kate Williams During this lecture we will examine sample size and power in applied research.	Workshop: Calculating Effect Size Lecturer: Dr Kate Williams During this workshop students will be expected to work through calculating effect size, sample size, and confidence intervals. Students will also practice producing a power statement.
21st Nov	Advanced statistical techniques Lecturer: Dr Kate Williams We will end the coverage of quantitative designs and analysis by exploring the role of more complex GLMs in applied research. In particular, we will focus on ANCOVA and MANOVA.	Workshop: Lecturer: Dr Kate Williams Students will be provided with the opportunity to run through further examples and practice their analysis skills in preparation for next week's in-class assessment. You will also be provided with the opportunity to discuss feedback on your previous assessments.
28th Nov	<u>Practical In-class skills assessment 2</u> Lecturer: Dr Kate Williams Based on information provided on a worksheet, you will be required to calculate sample size and write out a power statement for a study. You will also be provided with a dataset that you will be required to screen and clean, and a second dataset that you will be required to use in order to conduct an appropriate analysis.	Recap session: Lecturer: Dr Kate Williams During this session, we will recap the key principles of quantitative data and you will be provided with the opportunity to ask any questions and clarify any areas of concern in regards to your second quantitative results report write-up assessments.

5 th Dec	Qualitative research: Interpretative Phenomenological Analysis Lecturer: Dr Ceri Phelps We will now start to critically explore the role of qualitative research methods in applied psychology through the perspective of Interpretative Phenomenological Analysis.	Workshop: Analysing qualitative data Lecturer: Dr Ceri Phelps In this workshop we will analyse a provided transcript using IPA. This will then be followed by a discussion of alternative approaches to analysing qualitative data. We will also run through the Qualitative IPA results write-up assessment.
12 th Dec	Qualitative research: Interviews and Focus groups Lecturer: Dr Ceri Phelps We will discuss the importance of developing good research questions and interview questions for qualitative research and consider the role of the researcher in the process as well as the specific ethical considerations of applied qualitative research. We will then have hands on practice in conducting interviews and focus groups, considering the potential strengths and limitations of both approaches for applied research.	Professional & Ethical Issues in Applied research Lecturer: Dr Ceri Phelps In this workshop, we will discuss research ethics in applied research. Students will work in groups to identify a potential research question that embraces qualitative and quantitative methods and will be expected to identify the main methodological and ethical considerations of these proposals through feedback to the group. We will also run through the research design and ethics essay assessment.
End of Module teaching – Christmas Break		