

RESEARCH DESIGN AND ANALYSIS

Lecture 1: Introduction to the module

Stacey Coleman

Research Design and Analysis Schedule

Semester One

- **RDA Lecture:**
 - Thursday 9am - 10am
- **RDA Workshops:**
 - Joint honours Counselling/Psych: Thursday 11am – 1pm
 - Single honours Psych: Thursday 1pm – 3pm
- Module handbook on Moodle



[Click here for the Module Handbook](#)

Academic staff on this module are:

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Semester 1

Module Series Information: Semester 1

Date	Lecture Title	Workshop Topic	Preparation	Time Allocated
Thurs 4 th Oct	Introduction to RDA Recap variables and design	Formative in-class quiz Introduction to cleaning and organising data	Pallant Ch. 5	2 hours
Thurs 11 th Oct	Multi-level analysis: one-way ANOVA	Experimental study design I Introduction to Superlab Ethics	Cookian – Ch. 20 Online Superlab tutorial	4 hours

Research Design and Analysis Schedule

Semester Two

- **RDA Lecture:**
 - Thursday 9am – 10am
- **RDA Workshops:**
 - Flexible: dissertation prep
 - Schedule to be released at end of semester 1
 - Additional workshops re: methods and data collection tools at supervisors discretion late-Feb to March

Module Aims

- Build on skills & knowledge developed in year 1.
- Learn and understand research **design** issues in Psychology.
- Understand the ethical, practical & theoretical issues in research.
- Learn how to **analyse** and **interpret** data from Psychological studies.
- Carry out appropriate **statistical testing** using SPSS (computer software).
- **Reporting** of studies and results.

Module Assessment

Assessment	Due date (see Moodle for specific dates)
1. 1,500 word quantitative study report – multi-factorial design and ANOVA analysis	February 2019
2. 1,500 word qualitative study report - IPA	March 2019
3. Four hours research participation plus 1,000 word reflective log	March 2019
4. Ten minute academic interview on research proposal for your final year dissertation project	May 2019

Assessment 2: REP25_2 – qualitative report

- A *qualitative* research report that makes up 25% of your overall mark for the module
- You must design an interview schedule and carry out and record three ten minute academic interviews with fellow students exploring the research question.
- You must then transcribe the interviews and analyse your data using Interpretative Phenomenological Analysis (IPA).

Assessment 2: REP25_2 – qualitative report

- A hard or scanned copy of your coded transcript (not included in the word count) **must be submitted** which provides evidence of the following:
- **Stage 1 (reading) and Stage 2 (initial noting):** Your coded transcript must demonstrate your understanding of the transcript, initial notations made and emergent themes in the appropriate margins.

Assessment 2: REP25_2 – qualitative report

- In addition to the copy of your coded transcript, the report **MUST** include appendices (not included in the word count) documenting:
- **Stage 3 (development of emergent themes):** A chronological list of the emerging themes and evidence of identifying clustering of themes.
- **Stage 4 (connecting the themes):** You must include your tables of each superordinate theme and sub-themes with short example quotes and identifiers (page number and line number).

Assessment 1: REP25_1 – quantitative report

- A *quantitative* research report that makes up 25% of your overall mark for this module.
- In groups of between 4 and 6 you will design a small experimental research study to answer a research question.

Assessment 1: REP25_1 – quantitative report

- You have the opportunity to be creative with the design of your research study.
- Your study will examine within-subjects and between-subjects variables and will be carried out in a laboratory environment.

Assessment 1: REP25_1 – quantitative report

- In groups,
 - identify a clear and logical hypothesis, study design, and appropriate measures.
 - write and submit an ethics application to the SREC.
 - create a study using experimental software (SuperLab)
 - each of you **must** contribute to data collection and data inputting.
- Individually,
 - analyse your study data using an appropriate analysis and write up your report.
 - the analysis should clearly incorporate all variables analysed, and the key SPSS output must be pasted into the appendix.

Assessment 1: REP25_1 – quantitative report

• The word count limit for the final report is 1,500 words (+/- 10%) and must follow the standard APA report structure for Psychology:

- Abstract
- Introduction
- Methods (Participants/Design/Materials/Procedure)
- Results
- Discussion
- Reference List
- Appendices

Assessment 3: PERF25_1 – academic interview

- You are required to orally convey through this interview a suitable dissertation research proposal.
- A copy of the dissertation proposal must be submitted, but this is not assessed; the INTERVIEW is assessed.
- You will be assessed on:
 - Your understanding of theoretical issues associated with your proposed project
 - Consideration of practical issues (recruitment and data collection) with the intended design
 - Attention paid to the ethical considerations with the proposed project

Assessment 4: Participation hours plus reflective log

- 4 hours (16 credits) of research participation
- 1,000 word reflective log that details your participation in five of the studies you have taken part in (200 words per study).
- You are expected to consider the design of these studies, the ethical issues that may be related to them, and to reflect upon your own experiences of taking part.

You CANNOT pass this element if you fail to complete your research hours and/or fail to submit the research log.

Any individuals failing to collect 16 credits will be required to complete the alternative assessment over the summer period.

Assessment Guidance

- Further detailed information about each of the 4 assignments will be provided to you during designated workshops taking place throughout the year.
- So make sure you turn up to your workshops as they will provide you with the support and guidance you need in order to complete your assignments

Assessment Guidance: Managing Your Time

Suggested plan for assessment writing: Research report 1		
Task	What it entails	Time assigned for task
Data collection and collation	You will be required to design your study according to the question, and collect data in groups for this assessment	Start data design during scheduled workshops; data collection and collation will take an additional 3 hours
Topic readings	Reading related to the research area, basic and more advanced	Basic reading = 6 hours Advanced reading = 4 hours
Report first draft	Write main sections of report: Introduction Methods Results Discussion	6 hours
Data analysis	Enter data into SPSS; analyse data to report descriptive and inferential statistics	This will be practiced during workshops but will require an additional 4 hours of independent work
Report second draft	Check for coherence of the report, add abstract	3 hours
Report final draft	Writing the version that you will submit, complete with citations and a full reference list in APA style	2 hours
Proofread and check	Proofread for structure and errors, check for correct formatting and presentation	2 hours
Total time allocated to assessment = 30 hours		

Assessing your practical skills

- Non-assessed Formative Component:
 - Practical Skills: In-class worksheets; Experimental study creation
- Come to the lectures **and** the workshops
- Make sure you do the recommended reading and bring your books to workshops

GETTING BACK UP TO SPEED...

Read the book chapters from last year

Engage with the resources (SPSS, SuperLab)

Make use of the labs when required!

What I would recommend you look over...

- Variables!
 - Independent, dependent, extraneous, confounding
- Types of design
 - Within-subjects, between-subjects, mixed design
- Levels of measurement
 - Categorical and continuous
- Descriptive stats
 - Mean, SD, range, correct reporting
- Inferential stats
 - Correlation, t-test, chi-square. Formatting and reporting

This year... Broad Themes

- Qualitative research
 - Thematic analysis covered in year one – IPA assessment this year
- Quantitative research
 - More complex designs; multi-factorial designs, multiple analyses
- Advanced issues in research
- Preparing for your dissertation



Workshops today...

Introduction to cleaning and screening data...



Next week...

Multi-Level Analysis: One-Way ANOVA

ESSENTIAL reading: Coolican Ch. 20 (at the very least)

Introduction to SuperLab; Experimental study designs

Make sure you look at the online SuperLab tutorial (Moodle)
