



## UNSW Course Outline

# PSYC2001 Research Methods 2 - 2024

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## General Course Information

Course Code : PSYC2001

Year : 2024

Term : Term 1

Teaching Period : T1

Is a multi-term course? : No

Faculty : Faculty of Science

Academic Unit : School of Psychology

Delivery Mode : In Person

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Undergraduate

Units of Credit : 6

### Useful Links

[Handbook Class Timetable](#)

## Course Details & Outcomes

### Course Description

This course provides an introduction to inferential data analysis procedures for experimental and correlational designs. It builds on the principles of research design and descriptive statistics covered in PSYC1111 Measuring Mind and Behaviour, and it prepares students for more

advanced inferential statistical procedures covered in PSYC3001 Research Methods 3. It is a pre-requisite for all third-year courses in Psychology. Topics include sampling distributions, hypothesis tests and confidence intervals for between-group and repeated measures designs, power, correlation, prediction, and factorial designs. Students will learn to design, analyse and interpret experiments, enabling them to draw justified conclusions and communicate them clearly. Theory and procedures taught in lectures and online lessons will be reinforced through hands-on experience in tutorials and computing labs.

## **Course Aims**

The overall aim of this course is to provide you with a level of understanding of research methodology and inferential data analysis procedures that will allow you to choose appropriate analysis strategies for basic experimental and non-experimental designs, and to critically evaluate analyses of published experiments. The course also aims to provide you with the skills necessary to carry out these analyses using the jamovi statistical package.

## **Relationship to Other Courses**

PSYC2001 builds on material taught in PSYC1111 Measuring Mind and Behaviour, and it prepares students for PSYC3001 Research Methods 3 and PSYC3371 Multivariate Data Analysis for Psychology.

# Course Learning Outcomes

Course Learning Outcomes
CL01 : Extend your knowledge of research design and methodology for basic experimental and correlational designs.
CL02 : Select and carry out appropriate inferential data analysis procedures, controlling the risk of inferential errors, and articulate defensible conclusions.
CL03 : Use the computer package Jamovi to carry out descriptive and inferential statistical analyses and interpret the outcomes.
CL04 : Assess the validity of conclusions of published experiments and appreciate the limitations of your own research and the research of others.

Course Learning Outcomes	Assessment Item
CL01 : Extend your knowledge of research design and methodology for basic experimental and correlational designs.	<ul style="list-style-type: none"><li>• Assignment</li><li>• Weekly quizzes</li><li>• Final exam</li><li>• Mid term test</li></ul>
CL02 : Select and carry out appropriate inferential data analysis procedures, controlling the risk of inferential errors, and articulate defensible conclusions.	<ul style="list-style-type: none"><li>• Assignment</li><li>• Weekly quizzes</li><li>• Final exam</li><li>• Mid term test</li></ul>
CL03 : Use the computer package Jamovi to carry out descriptive and inferential statistical analyses and interpret the outcomes.	<ul style="list-style-type: none"><li>• Assignment</li><li>• Weekly quizzes</li><li>• Final exam</li><li>• Mid term test</li></ul>
CL04 : Assess the validity of conclusions of published experiments and appreciate the limitations of your own research and the research of others.	<ul style="list-style-type: none"><li>• Final exam</li></ul>

## Learning and Teaching Technologies

Moodle - Learning Management System | Echo 360

## Additional Course Information

**Lectures** will be delivered during the scheduled lecture times, Mon 12-1pm and Wed 1-2 pm, on campus in Clancy Auditorium. The lectures will be recorded, and links to the recordings will be available through the course Moodle page. Lecture slides in PDF format will be placed on Moodle in advance of each lecture. The slides summarise key points that the lecturer will expand on. They do not cover all the information and are not a substitute for attending the lectures.

**Statistics tutorials** will be held in Weeks 2-5, 7 and 9-10. These tutorials will review the major concepts covered in lectures and show how they are applied through worked examples and practice questions. You will also have the opportunity to discuss issues and ask questions. Before each tutorial, preparatory material will be made available on Moodle which you should complete beforehand. Tutorials will be held in a variety of locations; please consult your individual timetable.

**Computing labs** will be held in Weeks 1-5 and 8-9. In these labs you will be learning to use the statistical package *jamovi*. The computing labs will be held in Mathews Rooms 209 and 209A, located on level 2 behind the elevators. Each student will receive a School account with storage space and a print quota of 250 pages.

**Online modules** will be posted on Moodle to supplement the lecture and lab material and to provide revision.

**Quizzes:** Weekly quizzes will be made available on Moodle each week to provide you with feedback on your progress in the course. Together they make up 10% of your final mark (see Assessment section).

**Practice questions:** In addition to the exercises in the tutorial manual, sample questions will be posted on Moodle prior to the mid-term test and the final exam.

**Suggested approach to the course:**

1. Attend lectures in person if possible; if not then watch the recording as soon as possible afterwards; take good notes you can study from later
2. Attend tutorials and labs and complete the online modules
3. Complete the quizzes, revision modules and practice questions
4. Submit your assignment on time
5. Do not leave studying until just before the midterm test / final exam
6. Do not book travel during the exam period 26 Apr–9 May until the final exam timetable has been released in early April.

# Assessments

## Assessment Structure

Assessment Item	Weight	Relevant Dates
Assignment Assessment Format: Individual	25%	Start Date: Not Applicable Due Date: 12/04/2024 11:59 PM
Weekly quizzes Assessment Format: Individual	10%	Due Date: by midnight Wednesday of the following week
Final exam Assessment Format: Individual	45%	
Mid term test Assessment Format: Individual	20%	Start Date: 13/03/2024 01:05 PM

## Assessment Details

### Assignment

#### Assessment Overview

The assignment will involve a critique of a single analysis in the results section of a published experiment. You will write a report of approximately 4 pages, answering specific question about the outcome, reporting and interpretation of the analysis. Further details will be provided when the assignment is released in Week 5. The assignment will be due at midnight on the Friday of week 9. Feedback will be provided within 10 working days.

#### Course Learning Outcomes

- CL01 : Extend your knowledge of research design and methodology for basic experimental and correlational designs.
- CL02 : Select and carry out appropriate inferential data analysis procedures, controlling the risk of inferential errors, and articulate defensible conclusions.
- CL03 : Use the computer package Jamovi to carry out descriptive and inferential statistical analyses and interpret the outcomes.

#### Assessment Length

3-4 pages

#### Assessment information

The assignment is eligible for a short extension of 2 days, which must be submitted before the due date.

Please see the UNSW [Special Consideration](#) website for details.

### Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

## **Weekly quizzes**

### Assessment Overview

These quizzes will be made available on Moodle at the end of each week to allow you to check your knowledge of the material covered that week. There will be 9 quizzes worth 1 mark each, plus 1 mark for completing all 9. Multiple attempts are allowed. You will have 1 week to complete each quiz.

### Course Learning Outcomes

- CL01 : Extend your knowledge of research design and methodology for basic experimental and correlational designs.
- CL02 : Select and carry out appropriate inferential data analysis procedures, controlling the risk of inferential errors, and articulate defensible conclusions.
- CL03 : Use the computer package Jamovi to carry out descriptive and inferential statistical analyses and interpret the outcomes.

### Assessment Length

5 multiple choice questions per quiz

### Assessment information

Multiple attempts are allowed.

### Assignment submission Turnitin type

This is not a Turnitin assignment

## **Final exam**

### Assessment Overview

The Final Exam will be two hours and will be held on campus using the Inspira platform. You will need to bring your laptop to the exam. It will be closed book, but relevant formulae and statistical tables will be provided. The exam will contain both short-answer and multiple-choice questions. The emphasis is on your understanding of inferential procedures and research methodology.

### Course Learning Outcomes

- CL01 : Extend your knowledge of research design and methodology for basic experimental and correlational designs.
- CL02 : Select and carry out appropriate inferential data analysis procedures, controlling the risk of inferential errors, and articulate defensible conclusions.

- CLO3 : Use the computer package Jamovi to carry out descriptive and inferential statistical analyses and interpret the outcomes.
- CLO4 : Assess the validity of conclusions of published experiments and appreciate the limitations of your own research and the research of others.

#### **Assessment Length**

2 hours

#### **Assessment information**

The exam will be held during the T1 2024 exam period, 26 Apr–9 May. You should not arrange travel during the exam period until the date of the final exam has been released in early April. Students who arrange travel or other commitments prior to the release of the final exam date will not be granted consideration in the event they are unable to sit the final exam. This is especially important for study abroad students – do not arrange travel until the final exam date has been released.

There will be one supplementary exam opportunity for approved students, which will be held during the T1 2024 supplementary exam period 20-24 May.

#### **Assignment submission Turnitin type**

Not Applicable

### **Mid term test**

#### **Assessment Overview**

The Mid-term test will be held in the lecture theatre in the Wednesday lecture time in Week 5. The test will be open book and will cover material from the first half of the course (Weeks 1-4). The test will consist of multiple choice and/or short answer questions involving both calculation and theory.

#### **Course Learning Outcomes**

- CLO1 : Extend your knowledge of research design and methodology for basic experimental and correlational designs.
- CLO2 : Select and carry out appropriate inferential data analysis procedures, controlling the risk of inferential errors, and articulate defensible conclusions.
- CLO3 : Use the computer package Jamovi to carry out descriptive and inferential statistical analyses and interpret the outcomes.

#### **Assessment Length**

45 minutes

### Assessment information

The test is open book and will be held in the regular lecture theatre. Students will sit in alternate seats (i.e. with empty seats either side). Laptops, tablets, phones and other devices capable of communication may not be used. Please bring:

any hard copy notes you wish to consult, including statistical tables and formulae

a pen and spare pen to write your answers with

a simple hand-held calculator (not your phone)

### Assignment submission Turnitin type

Not Applicable

## **General Assessment Information**

Further information about each assessment will be provided to students closer to the assessment date.

Students should be familiar with the School of Psychology Student Guide, which contains key staff contact details and important information about policies and procedures related to courses and assessment. A link to the guide is at the top of the course Moodle page.

### Grading Basis

Standard

## **Course Schedule**

### **Attendance Requirements**

Students are strongly encouraged to attend all classes and review lecture recordings.

### **General Schedule Information**

Please see course outline posted on Moodle

## **Course Resources**

### **Prescribed Resources**

There is no set textbook for this course.



## Recommended Resources

You may wish to consult the following books held in the Library's High Use Collection, but they are not required reading for the course.

Howell, D. C. (2012). *Statistical Methods for Psychology*. Belmont, CA : Thomson/Wadsworth.

Smithson, M. (2000). *Statistics with Confidence*. London: Sage.

## Course Evaluation and Development

We will collect student feedback through MyExperience.

Changes this year based on previous feedback:

- introduction of weekly quizzes
- reduction of weights for midterm test and final exam
- scheduling the midterm test in week 5, before rather than after flexibility week, to provide earlier feedback on performance and give more time for the assignment
- revision of computing labs to provide skills in data management
- new assignment content

## Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
	Kelly Grace Garner					Yes	Yes
	Peter Lovibond					No	No

## Other Useful Information

### Academic Information

Upon your enrolment at UNSW, you share responsibility with us for maintaining a safe, harmonious and tolerant University environment.

You are required to:

- Comply with the University's conditions of enrolment.
- Act responsibly, ethically, safely and with integrity.
- Observe standards of equity and respect in dealing with every member of the UNSW community.
- Engage in lawful behaviour.
- Use and care for University resources in a responsible and appropriate manner.
- Maintain the University's reputation and good standing.

For more information, visit the [UNSW Student Code of Conduct Website](#).

## Academic Honesty and Plagiarism

**Referencing** is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism.

Further information about referencing styles can be located at <https://student.unsw.edu.au/referencing>

**Academic integrity** is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits: honesty, trust, fairness, respect, responsibility and courage. At UNSW, this means that your work must be your own, and others' ideas should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

Further information about academic integrity, plagiarism and the use of AI in assessments can be located at:

- The [Current Students site](#),
- The [ELISE training site](#), and
- The [Use of AI for assessments](#) site.

The Student Conduct and Integrity Unit provides further resources to assist you to understand your conduct obligations as a student: <https://student.unsw.edu.au/conduct>

## Submission of Assessment Tasks

### Penalty for Late Submissions

UNSW has a standard late submission penalty of:

- 5% per day,

- for all assessments where a penalty applies,
- capped at five days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

***Any variations to the above will be explicitly stated in the Course Outline for a given course or assessment task.***

Students are expected to manage their time to meet deadlines and to request extensions as early as possible before the deadline.

### **Special Consideration**

If circumstances prevent you from attending/completing an assessment task, you must officially apply for special consideration, usually within 3 days of the sitting date/due date. You can apply by logging onto myUNSW and following the link in the My Student Profile Tab. Medical documentation or other documentation explaining your absence must be submitted with your application. Once your application has been assessed, you will be contacted via your student email address to be advised of the official outcome and any actions that need to be taken from there. For more information about special consideration, please visit: <https://student.unsw.edu.au/special-consideration>

**Important note:** UNSW has a “fit to sit/submit” rule, which means that if you sit an exam or submit a piece of assessment, you are declaring yourself fit to do so and cannot later apply for Special Consideration. This is to ensure that if you feel unwell or are faced with significant circumstances beyond your control that affect your ability to study, you do not sit an examination or submit an assessment that does not reflect your best performance. Instead, you should apply for Special Consideration as soon as you realise you are not well enough or are otherwise unable to sit or submit an assessment.

### **Faculty-specific Information**

#### **Additional support for students**

- [The Current Students Gateway](#)
- [Student Support](#)
- [Academic Skills and Support](#)
- [Student Wellbeing, Health and Safety](#)
- [Equitable Learning Services](#)
- [UNSW IT Service Centre](#)
- Science EDI Student [Initiatives](#), [Offerings](#) and [Guidelines](#)