UNSW Course Outline

PSYC3361 Psychology Research Internship - 2024

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General Course Information

Course Code : PSYC3361
Year : 2024
Term : Term 2
Teaching Period : T2
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

In this course, students will gain hands on experience of the psychological research process, by undertaking an internship in a lab within the School of Psychology. Workshops will focus on the replication crisis in psychological science, equipping students with knowledge of open science

practice and research skills that are relevant to their research lab work. During tutorials, students will learn how to wrangle, visualise, and report data analysis in R. During the course, small groups of students will be assigned to a research lab, and will work collaboratively to reproduce an analysis from their assigned research lab. Students will also attend lab meetings and work with PhD students and honours students on ongoing projects. The internship provides a unique opportunity for students to learn about research that is conducted within the school and to apply their critical thinking skills to the challenges facing the field of psychology.

Course Aims

The aim of this course is to bring psychology research to life by designing lab-based learning experiences within the school. Students will learn about a specific area of research expertise and gain experience with how research questions are answered in that lab. Students will be mentored by PhD students and honours students and will contribute to lab meetings and ongoing research projects. Students will develop research and data-literacy skills that are key to open science practice and apply these skills to reproduce a data analysis and visualisation from their lab. The skills gained in the research internship are particularly beneficial for students considering honours and/or careers in research.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Reflect on how lab experiences relate to the research objectives, theoretical perspectives, and methods covered in foundational Psychology courses.
CLO2 : Evaluate whether research activities within their research lab align with best practices in open science.
CLO3 : Use R and RMarkdown to generate summary statistics and data visualisations in a report that includes code, output and documentation.
CLO4 : Work in a team to achieve common goals, evaluating the effectiveness of their own and others' contribution to a collaborative project.
CLO5 : Communicate project outcomes in both oral and written formats.

Course Learning Outcomes	Assessment Item
CLO1 : Reflect on how lab experiences relate to the research objectives, theoretical perspectives, and methods covered in foundational Psychology courses.	• Learning blog
CLO2 : Evaluate whether research activities within their research lab align with best practices in open science.	• Verification report • Learning blog
CLO3 : Use R and RMarkdown to generate summary statistics and data visualisations in a report that includes code, output and documentation.	• Take home test • Group presentation • Verification report • Learning blog
CLO4 : Work in a team to achieve common goals, evaluating the effectiveness of their own and others' contribution to a collaborative project.	• Group presentation
CLO5 : Communicate project outcomes in both oral and written formats.	• Group presentation • Verification report

Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

Learning and Teaching in this course

It is expected that students are aware of UNSW Assessment policy and understand how to apply for special consideration if they are unable to complete an assignment/exam due to illness and/or misadventure. It is expected that students have read through the School of Psychology

Student Guide.

Outside of class time, students can expect to spend 8-10 hours per week engaged in internship activities from Week 1 – 10.

Attendance at face-to-face workshops and laboratories and timely completion of online activities is essential in accordance with UNSW Assessment Implementation Procedure.

Communications: All news updates and announcements will be made on the 'Announcements' forum on the Moodle page and/or by email. It is the student's responsibility to check Moodle and their student email account regularly to keep up to date. The General channel of the course Teams site will operate as a Q&A forum; if you have coding or course-related questions you can ask them on Teams.

Students registered with Disability Services must contact the course co-ordinator immediately if they intend to request any special arrangements for later in the course, or if any special arrangements need to be made regarding access to the course material. Letters of support must be emailed to the course coordinator as soon as they are made available.

Additional Course Information

In this course, students will take on the role of open data scientists, experiencing and applying open and reproducible research practices. Students will develop advanced disciplinary knowledge, develop coding skills in R, work with data in an open and collaborative way. Students will develop critical thinking skills, learn to evaluate and synthesize information, and practice scientific research communication skills in both oral and written forms. The principal form of teaching is based on hands-on group problem-solving; internship students will have the opportunity to learn with and from peers, tutors, and lecturers, as well as PhD and honours students in research labs. It is up to the students to take responsibility for and reflect on their own learning. Reflective practice forms a major part of the learning log assessment.

This course does not involve lecture content. The cohort will meet several times throughout the session to discuss assessment, reproducibility, and open science benefits and challenges. These workshops will be held in-person on Wednesday mornings 9am-11am in Weeks 1-3, 5, and 10. Attendance at these workshops is mandatory. Group presentations will be in the lab sessions in Week 8.

There will be an online coding modules to complete in Weeks 1 - 5. These modules will cover how to use RMarkdown and read data into R, how to use ggplot to produce a range of visualisations, how to clean and summarise data using dplyr, best practices in data project workflows and how to install R on your machine. Each module takes ~ 2 hours to complete.

Coding labs will be held in-person. Each student will be assigned to the same laboratory session as the rest of their group members. Laboratory sessions are an opportunity for students to consolidate skills learned in the online coding modules, ask their tutor for help and work with their group on their verification project.

Workshops and labs are run in a "flipped" mode. Students will be expected to complete workshop preparation work before each workshop class and to arrive at their coding lab having already completed the online coding module for that week.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Learning blog Assessment Format: Individual	10%	Start Date: Week 1 Due Date: Week 1, 3, 5, 7, and 9
Take home test Assessment Format: Individual	15%	Start Date: Monday Week 4 @ 4pm Due Date: Wednesday Week 4 @ 4pm
Group presentation Assessment Format: Group	30%	Start Date: Week 3 Due Date: Week 8 in labs
Verification report Assessment Format: Individual Short Extension: Yes (2 days)	45%	Start Date: Week 1 Due Date: Part A: Week 9 (26/07/2024 23:59); Part B Study week (09/08/2024 23:59)

Assessment Details

Learning blog

Assessment Overview

You will write 5 short blog posts reflecting on your learning in Weeks 1, 3, 5, 7, and 9. The blog prompts will ask you to reflect on your experiences in the lab, open science, and/or the process of learning to code in R. You should write 200-300 words in response to the prompt and make two feedback comments on blog posts from your peers. Each post is due by Sunday 11:59pm of the assigned week and is worth 1% of your final grade; the peer feedback comments are due within 1 week of the post deadline and are worth an additional 1%.

Course Learning Outcomes

- CLO1 : Reflect on how lab experiences relate to the research objectives, theoretical perspectives, and methods covered in foundational Psychology courses.
- CLO2 : Evaluate whether research activities within their research lab align with best practices in open science.
- CLO3 : Use R and RMarkdown to generate summary statistics and data visualisations in a report that includes code, output and documentation.

Detailed Assessment Description

You will write 5 short blog posts reflecting on your learning in Weeks 1, 3, 5, 7, and 9. The blog prompts will ask you to reflect on your experiences in the lab, open science, and/or the process of learning to code in R. You should write 200-300 words in response to the prompt and make two feedback comments on blog posts from your peers. Each post is due by Sunday 11:59pm of the assigned week and is worth 1% of your final grade; the peer feedback comments are due within 1 week of the post deadline and are worth an additional 1%.

Assessment Length

< 500 words

Submission notes

Submit your blog post to the Learning Log forum on Moodle

Assessment information

[Learning Log assessment guidelines](#)

Assignment submission Turnitin type

This is not a Turnitin assignment

Take home test

Assessment Overview

The take home test will assess the data wrangling and visualisation skills covered in Weeks 1-3. You will be given a dataset in .csv format and asked to reproduce a set of summary statistics and visualisations. You should use RMarkdown to produce a report that includes both the R code and text comments that are necessary for a reader to understand what the code is doing.

The test will be made available during Week 4. You will have 48 hours to complete it and upload your report to Turnitin. Feedback will be given within 10 working days of submission

Course Learning Outcomes

- CLO3 : Use R and RMarkdown to generate summary statistics and data visualisations in a

report that includes code, output and documentation.

Detailed Assessment Description

The take home test will assess the data wrangling and visualisation skills covered in Weeks 1-3. You will be given a dataset in .csv format and asked to reproduce a set of summary statistics and visualisations. You should use RMarkdown to produce a report that includes both the R code and text comments that are necessary for a reader to understand what the code is doing.

The test will be made available during Week 4. You will have 48 hours to complete it and upload your report to Turnitin. Feedback will be given within 10 working days of submission

Assessment Length

~ 5 pages

Submission notes

Knit your RMarkdown document to pdf and submit to Turnitin

Assessment information

[Take home test assessment guidelines](#)

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

Group presentation

Assessment Overview

Group contribution (10%). From Week 3-8, you will work as a team on a verification project, reproducing a set of descriptive statistics and visualisations related to data from a particular published article.

Group presentation (20%). In Week 8, your group will present the outcome of your verification project to the class. Each team member should be involved in the presentation. Your 10 min talk should cover some background to your project, your reproducibility plan, discussion of the challenges and triumphs you encountered, and reflections about what you learned about coding in R, reproducibility and working as a team.

Feedback will be given within 10 working days of the presentation.

Course Learning Outcomes

- CLO3 : Use R and RMarkdown to generate summary statistics and data visualisations in a report that includes code, output and documentation.
- CLO4 : Work in a team to achieve common goals, evaluating the effectiveness of their own and others' contribution to a collaborative project.
- CLO5 : Communicate project outcomes in both oral and written formats.

Detailed Assessment Description

Group contribution (10%). From Week 3-8, you will work as a team on a verification project, reproducing a set of descriptive statistics and visualisations related to a dataset from your lab. Each week, you will rate your contribution and that of each of your team members, using a set of teamwork criteria that you will define during the workshop in Week 3. These contribution ratings will comprise 10% of your group work grade.

Group presentation (20%). In Week 8, your group will present the outcome of your verification project to the class. Each team member should be involved in the presentation. Your 10 min talk should cover some background to your project, your reproducibility plan, discussion of the challenges and triumphs you encountered, and reflections about what you learned about coding in R, reproducibility and working as a team.

Feedback will be given within 10 working days of the presentation.

Assessment Length

10 minutes

Assessment information

Group presentation assessment guidelines

Assignment submission Turnitin type

This is not a Turnitin assignment

Verification report

Assessment Overview

Your verification project will culminate in a final individual report that will be submitted in two parts. First, in the verification section (Part A), you should use RMarkdown to present the code that you wrote to reproduce the descriptives and visualisations, along with text comments that explain to the reader the process that you went through to come to that code and what it is doing. You will include a set of recommendations to the authors of the paper regarding how best practice in open science could be applied in this setting to enhance computational

reproducibility. Part A is due in Week 9.

Second, the exploration section (Part B) should showcase your coding skills by exploring three additional research questions that could be answered with the data. Part B is due during the study period. Feedback on each Part will be given within 10 working days of submission.

<u>Course Learning Outcomes</u>

- CLO2 : Evaluate whether research activities within their research lab align with best practices in open science.
- CLO3 : Use R and RMarkdown to generate summary statistics and data visualisations in a report that includes code, output and documentation.
- CLO5 : Communicate project outcomes in both oral and written formats.

<u>Detailed Assessment Description</u>

Your verification project will culminate in a final individual report. First, in the verification section, you should use RMarkdown to present the code that you wrote to reproduce the descriptives and visualisations, along with text comments that explain to the reader the process that you went through to come to that code and what it is doing. Second, the exploration section should showcase your coding skills by exploring three additional research questions that could be answered with the data. Finally, the recommendation section should make suggestions for how best practice in open science could be applied in this setting to enhance computational reproducibility.

The report will be due during the study period; feedback will be given within 10 working days of submission.

<u>Assessment Length</u>

max 10000 word

<u>Assessment information</u>

[Verification report assessment guidelines](#)

<u>Assignment submission Turnitin type</u>

This assignment is submitted through Turnitin and students do not see Turnitin similarity reports.

General Assessment Information

Learning blog posts are due by Sunday 11:59pm in Weeks 1, 3, 5, 7 and 9. You should response to the forum post with a 200-300 word reflection (1%) and then comment on the responses of two of your peers (1%) by the end of the following week.

There will be a Take home coding test (15%) scheduled in Week 4. The test will assess skills covered in Week 1-3 online coding modules and ensure that you are prepared to contribute your R skills to your group project. The test will be released on Monday 4pm; you should submit your knitted pdf document by Wednesday 4pm.

Group project work will be discussed in detail in workshop in Week 3. You may begin working on your project in labs from Week 3.

Group presentations will be delivered in workshop in Week 8. Each member of the team should have a role in the group presentation.

Special Consideration: Students who experience circumstances outside of their control that prevent them from completing an assessment task by the assigned due date due can apply for Special Consideration. Special Consideration applications should include a medical certificate or other documentation and be submitted via myUNSW within 3 days of the sitting/due date.

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.

Once your application has been assessed, you will be contacted via your student email address and advised of the official outcome. If the special consideration application is approved, you may be given an extended due date, or an alternative assessment/supplementary examination may be set. For more information about special consideration, please visit: https://student.unsw.edu.au/special-consideration.

Alternative assessments: will be subject to approval and implemented in accordance with UNSW Assessment Implementation Procedure and Psychology Student Guide.

All course assessments have been designed and implemented in accordance with UNSW Assessment Policy.

<u>Grading Basis</u>

Standard

Requirements to pass course

Not applicable

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 27 May - 2 June	Workshop	Workshop: Don't suck at science (Prof Lenny Vartanian)
	Module	Online module: RMarkdown and reading data
	Assessment	Learning log 1 due Sunday 11:59pm
Week 2 : 3 June - 9 June	Workshop	Workshop: How to take care of your data (Dr Kelly Garner)
	Module	Online Module: data visualisation with ggplot
	Laboratory	Lab: RMarkdown & Data visualisation with ggplot
Week 3 : 10 June - 16 June	Workshop	Workshop: How to work in a team (Dr Erin Goddard)
	Module	Online module: dplyr- dance with data
	Laboratory	dplyr: dance with data
	Assessment	Learning log 2 due Sunday 11:59pm
Week 4 : 17 June - 23 June	Module	Online module: Project structure
	Laboratory	Lab: Group project work
	Assessment	Take home test (15%) released Monday 4pm; due Wednesday 4pm
Week 5 : 24 June - 30 June	Workshop	Workshop: How to learn new things (A/Prof Kate Faasse)
	Module	Online module: Installing R
	Laboratory	Lab: Group project work
	Assessment	Learning log 3 due Sunday 11:59pm
Week 7 : 8 July - 14 July	Laboratory	Lab: Group project work
	Assessment	Learning log 4 due Sunday 11:59pm
Week 8 : 15 July - 21 July	Laboratory	Lab: GROUP PRESENTATIONS
	Assessment	Group presentations in Week 8 labs
Week 9 : 22 July - 28 July	Laboratory	Lab: Individual report work
	Assessment	Verification Report Part A due Friday 23:59
	Assessment	Learning log 5 due Sunday 11:59pm
Week 10 : 29 July - 4 August	Workshop	Workshop: Debrief and Celebration
	Laboratory	Lab: individual report work
Week 11 : 5 August - 11 August	Assessment	Verification Report Part B due Friday 23:59

Attendance Requirements

Please note that lecture recordings are not available for this course. Students are strongly encouraged to attend all classes and contact the Course Authority to make alternative arrangements for classes missed.

General Schedule Information

Workshops are scheduled between 9-11am on Wednesdays in Weeks 1, 2, 3, 5, and 10. There is no workshop in Week 8, however, group presentations will happen in labs that week.

There are online coding modules to complete in Weeks 1-5. Each module will take ~ 2 hours and should be completed before you attend your lab that week.

Labs/tutorials are scheduled on Thursdays (either 11-1pm or 2-4pm) in Weeks 2-5 and 7-10. You must attend your scheduled lab because your group work peers have been assigned to the same lab session.

Attendance at workshops and labs is mandatory.

In addition to workshops, coding, modules, and labs/tutorials, students are expected to get involved in the research activities going on in their assigned lab and to attend the lab meeting each week.

Course Resources

Course Evaluation and Development

Feedback will be collected via myExperience survey. See how we have used feedback to improve the course in the My Feedback matters section on Moodle.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Jenny Richmond					Yes	Yes
	Kate Faasse					Yes	No
Lecturer	Erin Goddard					No	No
	Kelly Grace Garner					No	No
	Lenny Vartanian					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 Plagarism

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]()