Course Outline

PSYC3361

Psychology Research Internship

School of Psychology

Faculty of Science

T2, 2022

1. Staff

Position	Name	Email	Consultation times and locations	Contact Details
Course Convenors	Jenny Richmond	j.richmond@unsw.edu.au	By appointment	Email
	Kate Faasse	k.faasse@unsw.edu.au	By appointment	Email
Tutors	Amy Li	amy.x.li@unsw.edu.au	By appointment	Email
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	Yuki Wen	yuki.wen@unsw.edu.au	By appointment	Email

2. Course information

Units of credit:	6
Pre-requisite(s):	Minimum completion of 72 units of credit (WAM= 75+). Completion of one or more courses in chosen research subfield and PSYC 2001: Research Methods.
Teaching times and locations:	PSYC3361 Timetable

2.1 Course summary

In this course, students will gain “hands-on” experience of the psychological research process, by undertaking an internship where they learn skills that are critical for conducting reproducible research.

2.2 Course aims

This course will introduce students to the replication crisis and reproducible research in psychology. Students will complete coding workshops in R, learning about and applying their skills in R markdown, data visualisation, and data wrangling. Students will undertake a group project, where they will apply their new-found R skills by working in teams to reproduce descriptive statistics and plots from recently published papers with open data. Students will present the outcome of their verification challenge as a group and write an individual verification report. Students will also have the opportunity to join a lab in the School of Psychology and see how research is conducted in the lab. Through this process students will learn R coding skills, gain insights into the power of working in a team, learn about open science strengths and challenges, and develop critical thinking and scientific communication skills.

2.3 Course learning outcomes (CLO)

At the successful completion of this course the student should be able to:

1. Understand and discuss major objectives, theoretical perspectives, literature and concepts within their chosen research field.

2. Describe, apply and evaluate research methodologies, data collection and analysis, and literature that address psychological questions.
3. Apply knowledge of the scientific method in order to identify sound methodologies, engage with literature, identify recurrent behavioural patterns, differentiate quality empirical evidence from speculation, form a strong argument and critique those of others, problem solve and engage in active learning.
4. Undertake ethical research with regard to using information, scientific integrity, appropriate conduct, and sensitivity to sociocultural diversity in their chosen area
5. Undertake effective interpersonal, written and oral communication facilitating efficient teamwork and respect for sociocultural diversity within a psychology context
6. Apply and link intradisciplinary psychological concepts, theories and research findings to solve problems in everyday life and society.

2.4 Relationship between course and program learning outcomes and assessments

	Program Learning Outcomes						
CLO	1. Knowledge	2. Research Methods	3. Critical Thinking Skills	4. Values and Ethics	5. Communication, Interpersonal and Teamwork	6. Application	**Assessment**
1.	Workshops, coding lessons, lab sessions, Moodle learning log forum						Group work, research skills, presentation, verification report
2.		Workshops, coding lessons, lab sessions, Moodle learning log forum					Group work, research skills, presentation, verification report
3.			Workshops, coding lessons, lab sessions, Moodle learning log forum				Group work, research skills, presentation, verification report
4.				Workshops, coding lessons, lab sessions, Moodle learning log forum			Group work, presentation, verification report
5.					Workshops, lab sessions, Moodle learning log forum		Group work, presentation, verification report
6.						Workshops, coding lessons, lab sessions, Moodle learning log forum	Group work, research skills, presentation, verification report

3. Strategies and approaches to learning

3.1 Learning and teaching activities

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, 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. It is up to the students to take responsibility for and reflect on their own learning. Reflective practice forms a major part of the assessment.

This course does not involve formal lectures or tutorials. 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 Friday afternoons (4-6pm) in Weeks 1-3, 5, and 10. Attendance at these workshops is mandatory. Coding lessons will also be held in-person, and each student will be assigned to a laboratory session each week where your tutor will run code Q&A sessions that students can engage with to get help. Group presentations will be in the laboratory session in Week 8.

Workshops are run in a “flipped” mode. Students will be expected to complete preparation work before each workshop class to ensure that they are able to participate fully in practical exercises. The Research Skills component of the course is completion only, however, students are expected to reflect on their experiences by completing a “learning log” each week.

3.2 Expectations of students

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.

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 emails regularly to keep up to date.

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.

4. Course schedule and structure

This course consists of 2-hour workshops through the trimester which are designed to prepare students to work on group projects. In Weeks 1-6, there are 2-hour online modules that introduce students to programming skills. Students are expected to take an additional 8-10 hours of work in the lab and independent study to complete their research project and course assessments.

Week	Workshop	Lab	Online Coding	Assessment	Related CLO
Week 1	**What is the problem? Why should we care?** In this session, students will learn about the replication crisis in psychology, open science practice, and the importance of computational reproducibility.	No lab	**Markdown & Say hello**	Learning Log 1	3, 5
Week 2	**How hard can it be?** In preparation for this session, students will read recently published papers about open data and reproducibility in psychology. In this session, students will discuss these papers, and create tools to communicate challenges and solutions to open data and reproducibility in psychology.	**2 hr Q&A**	**Data visualisation**	Learning Log 2	3, 5
Week 3	**So you hate group work** In this session, students will get into project groups and make a start on their reproducibility projects. VR Part 1 peer feedback.	**2 hr Q&A**	**Dance with your data**	Learning Log 3 Peer Feedback 1	1, 2, 5
Week 4	No workshop	**2 hr Q&A**	**Project workflows**	Learning Log 4 Peer Feedback 2	5, 6
Week 5	**Why doesn't everyone do it?** In preparation for this session, students will read recently published papers looking at incentive structures and barriers to open science. In this session, students will discuss these papers. VR Part 2 peer feedback.	**2 hr Q&A**	**No drama installation**	Learning Log 5 Peer Feedback 3	3, 4, 5
Week 6	Flexibility week	No lab	No online work	No learning log	

Week 7	No workshop	**2 hr Q&A**	No online work	Learning Log 6 Peer Feedback 4	2, 5
Week 8	No workshop	**Group presentations** Group presentations in lab sessions this week	No online work	Learning Log 7 Peer Feedback 5 Presentations in lab	5, 6
Week 9	No workshop	**2 hr Q&A** VR Part 3 peer feedback	No online work	Learning Log 8	5, 6
Week 10	**Have fun applying your R skills!** This session is about having fun and getting creative while learning something new.	**2 hr Q&A**	No online work	Learning Log 9 Final Verification Report	5, 6

5. Assessment

5.1 Assessment tasks

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

Assessment task	Length	Weight	Mark	Due date
Assessment 1: Verification report	~10,000 words	50%	/100	Week 10
Assessment 2: Group Presentation	10 Minutes	30%	/100	Week 8
Assessment 3: Group work	NA	10%	/10	throughout
Assessment 4: Research skills	NA	10%	/10	throughout

Assessment 1: Students' verification projects will culminate in an individual written report. The report will include a summary/reaction, verification code/documentation, exploratory analysis and recommendations. Students will have the opportunity to get feedback from peers on components of the report in Weeks 3, 5, and 9.

Assessment 2: Students will present the final outcome of their verification project to other students in a group presentation in lab in Week 8. Students will prepare a 10 min presentation outlining the background, plan, outcomes and recommendations from their verification project. There will be an opportunity for other students and staff in attendance to ask questions.

Assessment 3: Students will work in groups to complete their project throughout the term. In Week 3, the class will negotiate criteria that students will use to grade their contribution to the group project/presentation.

Assessment 4: To receive 10 completion marks for the Research Skills section of the course you must: 1. Complete coding modules. 2. Share a learning log to RPubs & the Learning Log forum once a week. 3. Make substantive and helpful comments on at least two other learning logs once a week. Learning logs must be submitted by midnight Sunday each week, and comments must be posted by midnight the following Wednesday. There is 1% Bonus to be earned if logs and comments are submitted on time throughout the term.

UNSW grading system: https://student.unsw.edu.au/grades
UNSW assessment policy: https://student.unsw.edu.au/assessment

5.2 Assessment criteria and standards

Further details and marking criteria for each assessment will be provided to students closer to the assessment release date (see 4.1: UNSW Assessment Design Procedure).

5.3 Submission of assessment tasks

Written assessments: In accordance with UNSW Assessment Policy all written pieces of assessment must be submitted online via Turnitin. No paper or emailed copies will be accepted.

Late penalties: deduction of marks for late submissions will be in accordance with School policy (see: Psychology Student Guide).

Special Consideration: Students who are unable to complete an assessment task by the assigned due date can apply for special consideration. Special consideration applications must be submitted to Student Central within 3 working days of the assessment due date along with a physical copy of the supporting documentation. Students who have experienced significant illness or misadventure during the assessment period may be eligible. Only circumstances deemed to be outside of the student's control are eligible for special consideration (see - https://student.unsw.edu.au/special-consideration). In the case of take-home assessment tasks, misadventure must occur for at least 3 consecutive days during the assessment period. If approved, students may be given an extended due date to complete take-home assessments, or an alternative assessment may be set.

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

Supplementary examinations: will be made available for students with approved special consideration application and implemented in accordance with UNSW Assessment Policy.

5.4. Feedback on assessment

Feedback on all pieces of assessment in this course will be provided in accordance with UNSW Assessment Policy.

Assessment	When	Who	Where	How
Formative 1: VR Part 1	Week 3	Peers/Tutor	in person	Written/verbal
Formative 2: VR Part 2	Week 5	Peers/Tutor	in person	Written/verbal
Formative 3: VR Part 3	Week 9	Peers/Tutor	In person	Written/verbal
Summative 1: Research report	Week 10	Tutor	online	Written/verbal
Summative 2: Group Presentation	Week 8	Kate/Tutor/Peers	in person	Written/verbal
Summative 3: Group work	throughout	Peers	online	Written
Summative 4: Research skills	throughout	Peers/Kate	online	Written

6. Academic integrity, referencing and plagiarism

The APA (7th edition) referencing style is to be adopted in this course. Students should consult the publication manual itself (rather than third party interpretations of it) in order to properly adhere to APA style conventions. Students do not need to purchase a copy of the manual, it is available in the library or online. This resource is used by assessment markers and should be the only resource used by students to ensure they adopt this style appropriately:

APA 7th edition.

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.[1] 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 and **plagiarism** can be located at:

- The *Current Students* site https://student.unsw.edu.au/plagiarism*,* and
- The *ELISE* training site http://subjectguides.library.unsw.edu.au/elise

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

7. Readings and resources

Textbook	Nil
Course information	Available on Moodle
Required readings	School of Psychology Student Guide*.*
Recommended internet sites	UNSW Library UNSW Learning centre ELISE Turnitin Student Code of Conduct Policy concerning academic honesty Email policy UNSW Anti-racism policy statement UNSW Equity and Diversity policy statement UNSW Equal opportunity in education policy statement

8. Administrative matters

The School of Psychology Student Guide contains School policies and procedures relevant for all students enrolled in undergraduate or Masters psychology courses, such as:

- Attendance requirements

[1] International Center for Academic Integrity, 'The Fundamental Values of Academic Integrity', T. Fishman (ed), Clemson University, 2013.

- Assignment submissions and returns
- Assessments
- Special consideration
- Student code of conduct
- Student complaints and grievances
- Disability Support Services
- Health and safety

It is expected that students familiarise themselves with the information contained in this guide.

9. Additional support for students

- The Current Students Gateway: https://student.unsw.edu.au/
- Academic Skills and Support: https://student.unsw.edu.au/academic-skills
- Student Wellbeing, Health and Safety: https://student.unsw.edu.au/wellbeing
- Disability Support Services: https://student.unsw.edu.au/disability-services
- UNSW IT Service Centre: https://www.it.unsw.edu.au/students/index.html