Course Outline

PSYC1111

Measuring Mind and Behaviour

School of Psychology

Faculty of Science

T3, 2019

1. Staff

Position	Name	Email	Consultation times and locations	Contact Details
Course Convenor	Dr. Kate Hutton-Bedbrook	kate@unsw.edu.au	By appointment Mathews 915	Email
Lecturer	Dr. Kate Hutton-Bedbrook	kate@unsw.edu.au	By appointment Mathews 915	Email
Lecturer	Dr. Lidija Krebs-Lazendic	l.krebs-lazendic@unsw.edu.au	By appointment Mathews 915	Email
Tutor				

2. Course information

Units of credit: 6

Pre-requisite(s): HSC maths, any level

Teaching times and locations: PSYC1111 Timetable

2.1 Course summary

This course provides students with knowledge of the characteristics of the scientific approach in general, and experimental methodology, design and data analysis in psychology in particular. It provides a comprehensive foundation in critical thinking, enabling students to design and plan research, conduct basic statistical analysis, scrutinise and critically evaluate published research, discriminate between evidence-based information and pseudoscience, and effectively communicate statistical and research data in variety of formats and contexts. A significant amount of the course content will be delivered online via Moodle (https://student.unsw.edu.au/moodle), allowing students to interact with course material and assess their knowledge at their own pace.

2.2 Course aims-

This course aims to assist students to develop confidence and skills in understanding, interpreting, evaluation and applying scientific concepts. The course also aims to provide the tools necessary to develop systematic, critical and analytical scientific thinking.

2.3 Course learning outcomes (CLO)

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

1. Demonstrate an understanding of basic research methods in psychology at an advanced level.

2. Frame research questions and formulate testable hypotheses, operationalize variables, and choose appropriate methods for your own research.
3. Demonstrate creative and critical thinking skills enabling you to apply knowledge of the scientific method in all fields of behavioural sciences.
4. Undertake literature searches and evaluate this information in order to use it appropriately in the research process.
5. Use reasoning and evidence to recognise, develop, defend and criticise arguments and persuasive appeals.
6. Demonstrate an understanding of and an ability to perform basic statistical analysis procedures, draw defensible conclusions and assess the validity of conclusions based on statistical analysis of experimental data.
7. Identify intentional and unintentional errors in research methods, data analysis and presentation, and interpretation of research results.
8. Differentiate between evidence based arguments and speculation in order to identify claims that arise from pseudoscience and recognise major fallacies in human thinking.

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.	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes				Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials
2.	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes		Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials
3.	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes			Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials
4.		Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes		Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials
5.	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes		Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials
6.	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes		Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials
7.	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes		Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials
8.	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes	Lectures, tutorials, online activities, weekly quizzes			Lectures, tutorials, online activities, weekly quizzes	Final exam, Critique, Report, Quizzes, Tutorials

3. Strategies and approaches to learning

3.1 Learning and teaching activities

The course web page is available through the e-learning Moodle site: https://student.unsw.edu.au/moodle. Login with your student number and password, and follow the links to the PSYC1111 Measuring Mind and Behaviour page.

Lectures will be digitally recorded. Links to the lecture recordings will be available through the UNSW lecture recordings + portal on the course web page. Lecture slides will be also available on the course page.

There are 5 face to face 1-hour tutorials, held in weeks 2,4 6,8 and 10. Tutorial discussions are based on the readings and online tutorial content available on the course page. In order to be able to participate in face-to-face tutorial activities, students are required to complete the online tutorials and read the material related to the face-to-face tutorial activities. The online tutorials are held in weeks 1,3,5,7 and 9.

Online activities and **online tutorial materials** will be available on the course website.

The Q and A Forum provides students with an opportunity to question and clarify the concepts and ideas mentioned in the lectures. The lecturers will post answers to these questions in the Q and A forum. Students are strongly encouraged to engage with this forum by posting questions or comments, and reading, answering, or replying to other student's posts to enhance understanding of the content, critical thinking, and written communication skills.

The General Discussion Forum connects students in the course to encourage discussion of weekly content, revision, or topics of interest with each other. Regular engagement in the General Discussion Forum will help students gain an understanding of the material, critique the contributions of fellow students, and help develop written communication skills.

Topic revision quizzes are available for students that provide an opportunity to evaluate understanding of course material on a weekly basis. Timely completion of the weekly quizzes will assist students in gaining a proper understanding of each topic so that this knowledge can be built on in future content.

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.

Attendance at lectures and tutorials and participation in all online and tutorial activities is compulsory.

Attendance at face-to-face tutorials will be recorded. Students must attend 80% of tutorials to be eligible to pass the course. **Under no circumstances will employment be accepted as an excuse not to meet expectations for class participation, group work, or assessments.** Remember, the semester times are quite short (final examinations will be upon you before you know it), so it is your responsibility to ensure that you do not fall behind with the ongoing assessment demands of the course.

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 Support 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

Each week this course typically consists of 2 hours of lecture material, 1 hour of face to face tutorials every second week, 1 hour of online tutorials every second week and 2 hours of online activities. Students are expected to take an additional 5 hours each week of self-determined study to complete assessments, readings, and exam preparation.

Week	Lecture topic/s		Tutorial topic/s	Online activities	Self-determined activities
Week 1 16/09/2019	**Research Methods**: The scientific method (KHB)	**Research Methods:** Pseudoscience From anecdotes to true experiments (KHB)	Online tutorial	Online revision quizzes	Online learning modules Assigned reading/s
Week 2 23/09/2019	**Research Methods:** Confidence in experimental results: Reliability (KHB)	**Research Methods:** Confidence in experimental results: Validity (KHB)	Introduction Critical Thinking	Online revision quizzes Online lesson: Research questions, hypotheses, variables & sample	Online learning modules Assigned reading/s
Week 3 30/09/2019	**Research Methods**: Eliminating confounds (KHB)	**Research Methods:** Types of experimental research: True experiments (KHB)	Online tutorial	Online revision quizzes Online Module: How to critically evaluate research	Online learning modules Assigned reading/s
Week 4 07/10/2019	**Research Methods:** Types of experimental research: Quasi-experiments (KHB)	**Research Methods:** Types of experimental research: Correlational studies. (KHB)	Research Designs	Online revision quizzes	Online learning modules Assigned reading/s
Week 5 14/10/2019	**Research Methods**: Types of experimental research: Observational studies (KHB)	**Research Methods**: Ethics in research (KHB)	Online tutorial	Online Module: Research methods revision	Online learning modules

				Online revision quizzes	Assigned reading/s
Week 6 21/10/2019	**Statistics**: Descriptive statistics (LKL)	**Statistics** Measures of variability (LKL)	Reporting Results	Online revision quizzes	Online learning modules Assigned reading/s
Week 7 28/10/2019	**Statistics**: z-scores (LKL)	**Statistics:** Introduction to probability (LKL)	Online Tutorial	Online revision quizzes	Online learning modules Assigned reading/s
Week 8 04/11/2019	**Statistics**: Probability and the samples: The distribution of the sample means (LKL)	**Statistics**: Inferential statistics (Hypothesis testing) (LKL)	Data Analysis 1	Online revision quizzes	Online learning modules Assigned reading/s
Week 9 11/11/2019	**Statistics:** Inferential statistics (Hypothesis testing) (LKL)	**Statistics**: Relationships in data (LKL)	Online Tutorial	Online revision quizzes	Online learning modules Assigned reading/s
Week 10 18/11/2019	**Statistics:** Relationships in data (LKL)	**Statistics**: Using t-statistics for inferences about population means and mean differences (LKL)	Data Analysis 2	Online lecture: t-test for two related samples Online Module: Statistics revision Online revision quizzes	Online learning modules Assigned reading/s
Study period 26/11/2019					

Exam period 29/11/2019				

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: Research study critique	500 words	15%	/100	
Assessment 2: Research report	1500 words	25%	/100	
Assessment 3: Final exam	2 hrs	40%	/40	Exam period
Assessment 4: Online activities	N/A	20%		

Assessment 1: You will be given a study that you will have to critically evaluate for its methodological soundness. Through open ended questions you will be asked to identify the research question, independent and dependent variables; confounding variables etc. Feedback will be provided online via Moodle within 10 days of the assignment due date.

Assessment 2: You will be required to write a full research report based on data provided to you. You will receive more information about the report in the assessment sheet and tutorials. Feedback will be provided online via Moodle within 10 days of the assignment due date.

Assessment 3: This will be a combination of multiple choice and short answer questions. The questions will cover the material covered in weeks 1-10 (inclusive) in lectures, online lecture activities and weekly quizzes, as well as suggested readings.

Assessment 4: Continuous Assessment- Online quizzes and Online Tutorials

Online weekly quizzes will provide you with an opportunity to revise and deepen your knowledge of key concepts in the course. 10 weekly-revision quizzes will be available in weeks 1-10.**You will be awarded 1% for completing each quiz with a score of 65% or greater by Sunday 11:59pm the week it is released**. You may take the quiz as many times as you like, your highest attempt will count towards your grade. The quizzes will remain open for revision until the final exam. Feedback is provided online via Moodle upon completion of each quiz.

Online Tutorials: These activities are designed to prepare you for face-to-face tutorials, in order to get the marks for completing these activities (2% per each set of online tutorial activities) you will have to complete these activities by Monday 9am the following week. Late completions will be possible but will not earn marks. Feedback is provided online via Moodle upon completion of each online tutorial.

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

Assessments 1 & 2: In accordance with UNSW Assessment Policy 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
Final exam	N/A	N/A	N/A	N/A
Research study critique	Within 10 days of due date	Tutor	Online	Moodle
Research report	Within 10 days of due date	Tutor	Online	Moodle
Weekly online quizzes	Immediate	N/A	Online	Moodle
Online tutorial activities	Immediate	N/A	Online	Moodle

6. Academic integrity, referencing and plagiarism

The APA (6th 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 6th 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/presenting

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	No prescribed text. Recommended texts: Kumar, R. (2014). *Research Methodology: A step-by-step guide for beginners.* Sage Publications. (4th Ed) Field, A. (2016). An Adventure in Statistics: The Reality Enigma. Sage Publications. (1st Ed)
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

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

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
- 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