



COGS2250

Cognitive and Brain Sciences Laboratory

Session 2, Weekday attendance, North Ryde 2021

Archive (Pre-2022) - Department of Cognitive Science

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Disclaimer

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Session 2 Learning and Teaching Update

The decision has been made to conduct study online for the remainder of Session 2 for all units WITHOUT mandatory on-campus learning activities. Exams for Session 2 will also be online where possible to do so.

This is due to the extension of the lockdown orders and to provide certainty around arrangements for the remainder of Session 2. We hope to return to campus beyond Session 2 as soon as it is safe and appropriate to do so.

Some classes/teaching activities cannot be moved online and must be taught on campus. You should already know if you are in one of these classes/teaching activities and your unit convenor will provide you with more information via iLearn. If you want to confirm, see the list of [units with mandatory on-campus classes/teaching activities](#).

Visit the [MQ COVID-19 information page](#) for more detail.

General Information

Unit convenor and teaching staff

Bianca De Wit

bianca.dewit@mq.edu.au

AHH 3.812

Tuesdays 3-4pm, please email beforehand so I know you're attending.

Credit points

10

Prerequisites

Admission to BCogBrainSc and (COGS2000 or COGS202) and COGS2020

Corequisites

Co-badged status

Unit description

This unit will help students develop the knowledge and skills required to conduct research in the cognitive and brain sciences. Students will have the opportunity to participate in all stages of the research process including experimental design, experiment programming, data collection, data analysis, and reporting results. A primary focus of this unit will be to foster the development of practical laboratory skills including appropriate research notetaking and scientific record keeping, professional conduct in laboratory and research settings, and effective scientific communication in both oral and written form.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Demonstrate and apply research and problem solving skills.

ULO2: Design and program a simple experiment.

ULO3: Perform appropriate statistical analyses on collected research data.

ULO4: Work professionally, safely, and ethically in a research environment.

ULO5: Display effective scientific communication in written and oral form.

General Assessment Information

Late penalty:

Late submissions will receive a 5% per day penalty including weekends and public holidays. If you submit the assessment task 10 days or more beyond the due date, without an approved extension, you will be awarded a maximum of 50% of the overall assessment marks.

Questions about the assessment tasks?

We will spend time during lectures and tutorials discussing the expectations for the assessment tasks. There is also time dedicated to providing in-class support. If you do still have questions about any of the assessment, please email the unit convenor (bianca.dewit@mq.edu.au).

Assessment Tasks

Name	Weighting	Hurdle	Due
Research participation	10%	No	First half of the session
Problem sets	35%	No	Throughout session, see iLearn for exact dates
Registration report	20%	No	Friday 1 October 2021 @ 10pm (End of Week 8)
Research poster presentation	35%	No	Week 13

Research participation

Assessment Type ¹: Participatory task

Indicative Time on Task ²: 5 hours

Due: **First half of the session**

Weighting: **10%**

Participation in and running of experiments for student-led research projects.

On successful completion you will be able to:

- Work professionally, safely, and ethically in a research environment.

Problem sets

Assessment Type ¹: Problem set

Indicative Time on Task ²: 25 hours

Due: **Throughout session, see iLearn for exact dates**

Weighting: **35%**

Problem sets distributed throughout the session that give students the opportunity to program experiments and comment on code.

On successful completion you will be able to:

- Demonstrate and apply research and problem solving skills.
- Design and program a simple experiment.
- Perform appropriate statistical analyses on collected research data.
- Display effective scientific communication in written and oral form.

Registration report

Assessment Type ¹: Report

Indicative Time on Task ²: 20 hours

Due: **Friday 1 October 2021 @ 10pm (End of Week 8)**

Weighting: **20%**

Highly scaffolded and structured report that outlines the plan for the student-led research project (max. 1000 words).

On successful completion you will be able to:

- Demonstrate and apply research and problem solving skills.
- Design and program a simple experiment.
- Work professionally, safely, and ethically in a research environment.
- Display effective scientific communication in written and oral form.

Research poster presentation

Assessment Type ¹: Presentation

Indicative Time on Task ²: 35 hours

Due: **Week 13**

Weighting: **35%**

Research poster presenting the student-led research project.

On successful completion you will be able to:

- Demonstrate and apply research and problem solving skills.
- Perform appropriate statistical analyses on collected research data.
- Work professionally, safely, and ethically in a research environment.
- Display effective scientific communication in written and oral form.

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Learning activities:

This unit involves essential on campus learning activities which will be delivered in accordance with a COVID Safe plan. You will be expected to attend relevant on campus activities unless the Public Health Order and/or University advice changes. Given the current COVID situation in NSW, all lectures for this unit will be delivered via Zoom (see iLearn for the link). It is likely that the first few tutorials will have to be transferred to online (via Zoom) also but that we will return to on-campus tutorials later in the Session. Please see the iLearn site for week-to-week information.

This unit has both lectures and tutorials. Lectures are 1-hour long and offered on Wednesdays 10-11am (Week 1 - Week13, inclusive). Tutorials are 2-hours long and offered on Wednesdays 12, 2 and 4pm in 12SW 421 (Week 1 - Week13, inclusive). Please check eStudent for the time of your tutorial. Due to restrictions on the availability of resources in the laboratory and in line with health and safety regulations you should attend the tutorial to which you have been assigned. Although students might be able to occasionally attend a different tutorial, most classes are likely to be full, in which case those not attending their assigned tutorial will be asked to leave. If you cannot attend your regular tutorial, please let the unit convenor know as soon as possible.

To do well in COGS2250, and keep up with the learning material, it is strongly encouraged that you attend both lectures and tutorials. These learning activities have been designed to give you the opportunity to ask questions, interact with the fast-paced learning material, and interact with your peers. The tutorials are made up out of a variety of active tasks that will support your understanding of important aspects of experimental design and practice, including the creating of experiments and processing of EEG data. Importantly, your participation in these activities will help you on your way to completing your assessment tasks, and every tutorial will have time

dedicated to provide support for your assessment tasks. You will receive feedback regularly throughout the Session both verbally and in relation to your submitted assessment tasks (problem sets, report and presentation). If you feel like anything is unclear, or you wish further feedback on your individual performance, please get in touch with the unit convenor.

Resources:

In this unit, we will be using iLearn to access learning material, submit assessment tasks and provide feedback and marks. We will also be using PsychoPy to create experiments and EEGLAB (run through Matlab). We will ensure the computers in the teaching room have the required software, but you might also want to install this in your personal computer. If for any reason, you do not have access to a computer, please get in touch with the unit convenor as soon as possible.

For any of our online learning activities, please make sure you have a microphone and webcam so that you can fully engage. We will expect you to have your camera on. You can blur your background or use a virtual background if you like to maintain privacy. Please respect other people's privacy during these interactions - you must not record any video or audio of interactions during this course.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.s.mq.edu.au\)](https://policies.s.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/support/study/policies\)](https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit [ask.mq.edu.au](#) or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](#)

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Statements

Statement on academic courtesy

It is the right of each student to learn in an environment that is free of disruption and distraction. Please arrive to all classes on time, and if you are unavoidably detained, please enter the tutorial as quietly as possible to minimise disruption. Although some lectures will have discussion sections or questions during lectures, using the chat to talk between students while the lecturer is talking is distracting and is strongly discouraged. Phones and other electronic devices that produce noise and other distractions must be turned off prior to entering class. Where your own device (e.g., laptop) is being used for class-related activities such as creating the experiments, you are asked to close down all other applications to avoid distraction to you and others. COGS2250 involves activities that require the use of experimental equipment and data collection from other students. **Please treat both the equipment and your fellow students with the utmost respect.** If you are uncomfortable participating in any specific activity, please let your unit convenor (who is also your tutor) know. Finally, COVID safety precautions are in place for the in-person tutorials. Please make sure you follow all the guidelines carefully.

Statement on social inclusion and diversity

Social inclusion at Macquarie University is about giving everyone who has the potential to benefit from higher education the opportunity to study at the University, participate in campus life and flourish in their chosen field. The University has made significant moves to promote an equitable, diverse and exciting campus community for the benefit of staff and students. It is your responsibility to contribute towards the development of an inclusive culture and practice in the areas of learning and teaching, research, and service orientation and delivery. As a member of the Macquarie University community, you must not discriminate against or harass others on the basis of their sex, gender, race, marital status, carers' responsibilities, disability, sexual orientation, age, political conviction or religious belief. All lecturers, tutors and students are expected to display appropriate behaviour that is conducive to a healthy learning environment for everyone. **The Unit Convenor is an active supporter of equity and diversity at Macquarie University, including being a member of the Ally network, and is happy to provide additional support if needed.**