COGS2250

Cognitive and Brain Sciences Laboratory

Session 2, In person-scheduled-weekday, North Ryde 2024

School of Psychological Sciences

Contents

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General Information

Unit convenor and teaching staff
Unit Convenor
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AHH 2.629 (Australian Hearing Hub Level 2)
Upon appointment

Unit Convenor
Sam Curtis
sam.curtis@mq.edu.au
Contact via Email
Upon appointment

Credit points
10

Prerequisites
Admission to BCogBrainSc and COGS2000 or COGS202

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

Grade descriptors and other information concerning grading are contained in the Macquarie University Assessment Policy.

All final grades are determined by a grading committee, in accordance with the Macquarie University Assessment Policy, and are not the sole responsibility of the Unit Convenor.

Students will be awarded a final grade and a mark which must correspond to the grade descriptors specified in the Assessment Procedure (clause 128).

To pass this unit, you must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements, and achieve a final mark of 50 or better.

Further details for each assessment task will be available on iLearn.

Late Submissions

Unless a Special Consideration request has been submitted and approved, a 5% penalty (OF THE TOTAL POSSIBLE MARK) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of '0' will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 11.55pm. A 1-hour grace period is provided to students who experience a technical concern.

 For example:

Number of days (hours) late	Total Possible Marks	Deduction	Raw mark	Final mark
1 day (1-24 hours)	100	5	75	70
2 days (24-48 hours)	100	10	75	65
3 days (48-72 hours)	100	15	75	60
7 days (144-168 hours)	100	35	75	40
>7 days (>168 hours)	100	-	75	0

For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.

Research participation

Assessment Type [1]: Participatory task Indicative Time on Task [2]: 5 hours Due: **Throughout session, see iLearn for exact dates** 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.

Registration report

Assessment Type [1]: Report Indicative Time on Task [2]: 20 hours Due: **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.

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.

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

Assessment Tasks

Name	Weighting	Hurdle	Due
Research poster presentation	35%	No	Week 13
Problem sets	35%	No	Throughout session, see iLearn for exact dates
Registration report	20%	No	Week 8
Research participation	10%	No	Throughout session, see iLearn for exact dates

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.

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Assessment Type [1]: Problem set
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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: **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 participation

Assessment Type [1]: Participatory task
Indicative Time on Task [2]: 5 hours
Due: **Throughout session, see iLearn for exact dates**
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.

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[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

As a student enrolled in this unit, you will engage in a range of face-to-face and online learning activities, including readings, lectures, etc. Details can be found on the iLearn site for this unit.

Readings

There is no textbook for this course, however readings will be posted on iLearn as required.

iLearn

You will need access to the internet to access the unit's iLearn page. Through iLearn you will be able to access the lecture recordings (Echo360), additional readings, and feedback and marks for the assessment tasks. You are also required to submit assessment tasks via iLearn, using the Turnitin submission tool. Please allow time to familiarise yourself with how to access iLearn. For further information, visit the iLearn student support page.

Lectures

All lectures will be delivered face-to-face in 1**7 Wally's Walk (G25 Theatre)**, starting in Week 1. The officially scheduled lecture time is Monday **1:00 PM - 2:00 PM**. Although attendance at lectures is strongly encouraged, all lectures will be recorded and made available for asynchronous viewing through Echo360. Lecture slides will be uploaded to iLearn just before the

lecture time under the lecture link in the relevant week below.

Tutorials

All tutorials will be delivered face-to-face in starting in Week 1. Please check eStudent for the time and location of your tutorial. Changes to tutorials need to be made online via eStudent only (neither the unit convenor nor the tutor can make changes to your tutorial enrolment). After week 2, no further changes will be allowed unless supporting documentation about the reason for changing is provided and there is space in the tutorial you wish to enrol in.

Face-to-face tutorials are an essential part of COGS2250 and these cannot be delivered online. All students are therefore expected to come to campus to participate in tutorials and, for some weeks, complete the associated in-class assessment tasks. If you are unable to attend a tutorial with an in-class assessment task due to unavoidable reasons (quarantine, illness, etc.), you should apply for Special Consideration through AskMQ. Reasonable adjustments will be made for students with approved Special Consideration. You do not need to apply for Special Consideration if you miss a tutorial that does not have an in-class assessment task.

Requests for extensions, medical leave, and/or special consideration

Please note that it is the student's responsibility to notify the University of a disruption to their studies. All requests for extensions, medical leave and/or special consideration should be made prior to the due date for the assignment, are to be made directly via the University's online Ask MQ system. Guidelines for Special Consideration can be found here.

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://policies.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
- Assessment Procedure
- Complaints Resolution 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/su

pport/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) 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

Academic Integrity

At Macquarie, we believe academic integrity – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free online writing and maths support, academic skills development and wellbeing consultations.

Student Support

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

The Writing Centre

The Writing Centre provides resources to develop your English language proficiency, academic writing, and communication skills.

- Workshops
- Chat with a WriteWISE peer writing leader
- Access StudyWISE
- Upload an assignment to Studiosity
- Complete the 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

Macquarie University offers a range of Student Support Services including:

- IT Support
- Accessibility and disability support with study
- Mental health support
- Safety support to respond to bullying, harassment, sexual harassment and sexual assault
- Social support including information about finances, tenancy and legal issues
- Student Advocacy provides independent advice on MQ policies, procedures, and processes

Student Enquiries

Got a question? Ask us via AskMQ, or contact Service Connect.

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.

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 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 based on their sex, gender, race, marital status, carers' responsibilities, disability, sexual orientation, age, political conviction or religious belief. All staff and students are expected to display appropriate behaviour that is conducive to a healthy learning environment for everyone.

Professionalism

In the Faculty of Medicine, Health and Human Sciences, professionalism is a key capability embedded in all our courses.

As part of developing professionalism, students are expected to attend all small group interactive sessions including clinical, practical, laboratory, work-integrated learning (e.g., PACE placements), and team-based learning activities. Some learning activities are recorded (e.g., face-to-face lectures), however you are encouraged to avoid relying upon such material as they

do not recreate the whole learning experience and technical issues can and do occur. As an adult learner, we respect your decision to choose how you engage with your learning, but we would remind you that the learning opportunities we create for you have been done so to enable your success, and that by not engaging you may impact your ability to successfully complete this unit. We equally expect that you show respect for the academic staff who have worked hard to develop meaningful activities and prioritise your learning by communicating with them in advance if you are unable to attend a small group interactive session.

Another dimension of professionalism is having respect for your peers. It is the right of every student to learn in an environment that is free of disruption and distraction. Please arrive to all learning activities on time, and if you are unavoidably detained, please join activity as quietly as possible to minimise disruption. 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, you are asked to close down all other applications to avoid distraction to you and others. Please treat your fellow students with the utmost respect. If you are uncomfortable participating in any specific activity, please let the relevant academic know.

Unit information based on version 2024.01R of the Handbook