



MEDI7041

Research Rotation 1

Session 1, In person-scheduled-weekday, North Ryde 2023

Macquarie Medical School

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General Information

Unit convenor and teaching staff

Unit convenor

Angela Laird

angela.laird@mq.edu.au

Contact via E-mail

Level 1, 75 Talavera Road, Macquarie University

By appointment.

Credit points

10

Prerequisites

Admission to MRes

Corequisites

Co-badged status

Unit description

This unit is one of two units facilitating research within the first year of the Masters of Research within the Faculty of Medicine, Health and Human Sciences. This unit focuses on providing a first hand experience of performing research and research communication. In this unit, you will become a member of several research groups under the supervision of a senior PhD candidate or post-doctoral staff member. Learning activities will include participation in research activities such as assisting in the acquisition, analysis and interpretation of data, participation in research group meetings and journal clubs, and practical experience in research communication. The immersive learning environment within the research activities will provide you with access to discipline-specific expertise, and you will be able to demonstrate the application of the theoretical knowledge obtained in your other learning activities. Through this unit you will develop skills as a researcher and research communicator.

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: Communicate advanced theoretical and practical knowledge of fields of

contemporary research.

ULO2: Participate in the day-to-day running of a research group and the responsibilities in research and collaborate in discussion centred around research ideas, methods, and data.

ULO3: Acquire, analyse, and interpret research data and methods in a way suitable for presentation to the scientific community.

ULO4: Review and critically evaluate diverse scientific literature and present your findings.

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 to 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

Late submission of time sensitive tasks, such as timetabled tests/exams, scheduled performance assessments/presentations, scheduled practical assessments/labs, will be addressed by the unit convenor in a Special consideration application.

Special Consideration

If you are unable to complete an assessment task on or by the specified date due to circumstances that are unexpected, unavoidable, significantly disruptive and beyond your control, you may apply for special consideration in accordance with the [Special Consideration Policy](#). Applications for special consideration must be supported by appropriate evidence and submitted via ask.mq.edu.au.

Assessment Tasks

Name	Weighting	Hurdle	Due
Project Proposal	25%	No	Week 4
Poster Presentation	30%	No	In class, Week 7
Research engagement	15%	No	Assessed Wk 2-12, lab book due Wk 13 (+ Wk 7 if 2 rotations)
Mini-paper submission	30%	No	Week 14

Project Proposal

Assessment Type ¹: Report

Indicative Time on Task ²: 6 hours

Due: **Week 4**

Weighting: **25%**

Research proposal based on first research rotation.

On successful completion you will be able to:

- Communicate advanced theoretical and practical knowledge of fields of contemporary research.
- Acquire, analyse, and interpret research data and methods in a way suitable for presentation to the scientific community.
- Review and critically evaluate diverse scientific literature and present your findings.

Poster Presentation

Assessment Type ¹: Presentation

Indicative Time on Task ²: 10 hours

Due: **In class, Week 7**

Weighting: **30%**

Presentation of outcomes from first research rotation.

On successful completion you will be able to:

- Communicate advanced theoretical and practical knowledge of fields of contemporary research.
- Participate in the day-to-day running of a research group and the responsibilities in research and collaborate in discussion centred around research ideas, methods, and data.
- Acquire, analyse, and interpret research data and methods in a way suitable for presentation to the scientific community.
- Review and critically evaluate diverse scientific literature and present your findings.

Research engagement

Assessment Type ¹: Lab book

Indicative Time on Task ²: 6 hours

Due: **Assessed Wk 2-12, lab book due Wk 13 (+ Wk 7 if 2 rotations)**

Weighting: **15%**

Contribution in research placement.

On successful completion you will be able to:

- Communicate advanced theoretical and practical knowledge of fields of contemporary research.
- Participate in the day-to-day running of a research group and the responsibilities in research and collaborate in discussion centred around research ideas, methods, and data.

Mini-paper submission

Assessment Type ¹: Professional writing

Indicative Time on Task ²: 15 hours

Due: **Week 14**

Weighting: **30%**

Conference proceeding on second research rotation topic.

On successful completion you will be able to:

- Communicate advanced theoretical and practical knowledge of fields of contemporary research.

- Participate in the day-to-day running of a research group and the responsibilities in research and collaborate in discussion centred around research ideas, methods, and data.
 - Acquire, analyse, and interpret research data and methods in a way suitable for presentation to the scientific community.
 - Review and critically evaluate diverse scientific literature and present your findings.
-

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

Delivery

The research placements make up the majority of contact hours within this unit. These placements may include work within the Faculty of Medicine, Health and Human Sciences laboratory or work with other teams within other settings within the Faculty.

Resources

Technology

Completion of online training and learning activities throughout the unit will require you to have access to a tablet, laptop or similar device. If you do not have your own device you may borrow one from the University library.

Required Unit Materials

For placements in laboratories within the Macquarie Medical School you are required to wear closed shoes that cover the whole foot and a laboratory gown/coat (provided) whilst in the laboratory venue.

Online training modules and laboratory inductions

If you need access to the laboratory you will be required to complete online training modules and a face-to-face laboratory induction.

Recommended Readings

Details of recommended readings will be provided by supervisors in the host research group. You should use this material to actively seek further reading through searching the current

literature (e.g. research articles and reviews) using tools such as PubMed, Scopus, and/or GoogleScholar. This material should supplement and extend your understanding of the research topic, and assist in preparation of assessed material.

Research Documentation

You should keep a laboratory book or research diary for documentation of your day-to-day work, including details such as experimental methods, observations, results, analysis, and conclusions. This document will be assessed within your Research Engagement assessment task. This document serves as an important written record in research and may be used to guide future work in your host group and will remain the property of the research group at the end of the placement.

Unit Schedule

Week 1: You will nominate your list of preferred research projects from a provided booklet, or projects that you have organised with supervisors yourself. You will be notified of your allocated research projects late in Week 1.

Those that have previously completed MEDI7042 will conduct one 11 week placement (Weeks 2-12), those that have not completed that unit will conduct two 5 week placements (Weeks 2-6 and Weeks 8-12).

During your research placements you will perform a research project under the supervision of a research team. You may be required to undertake online laboratory and/or ethics training modules to commence your project.

Weeks 1, 2, 5, 7 and 10: You will have classes or workshops scheduled to help develop the skills required for your assessment tasks.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](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 \(https://students.mq.edu.au/support/study/policies\)](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

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.

Inclusions 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., research 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.

Within placement experiences professionalism will also encompass having respect for your placement supervisors and placement team. These individuals are contributing time to aid your learning. This respect includes arriving to all learning activities at agreed times, and communicating in advance when you will not be able to attend or will be unavoidably late. This respect also relates to the responsible use of resources and facilities provided to aid your learning.