



MEDI7042

Research Rotation 2

Session 1, In person-scheduled-weekday, North Ryde 2022

Macquarie Medical School

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General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

Admission to MRes

Corequisites

Co-badged status

Unit description

This unit is the second 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 a first hand experience of research and research communication. In this unit, you will become a member of a research group or groups under the supervision of senior PhD candidate(s) and/or academic staff member(s). Learning activities will include an opportunity to participate 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 of 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: Review advanced theoretical and/or practical knowledge of a field of research and apply this knowledge to a small research project.

ULO2: Participate in the day-to-day running of a research group and the responsibilities of self-directed postgraduate 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

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, which corresponds to the grade descriptors specified in the [Assessment Procedure](#) (clause 128).

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

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

Student 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 a minimum of 80% of all small group interactive sessions including tutorials, as well as clinical- and laboratory-based practical sessions.

Similarly, as part of developing professionalism, students are expected to submit all work by the due date. Applications for assessment task due date extensions must be supported by appropriate evidence and submitted via [AskMQ](#). For further details, please refer to the [Special Consideration Policy](#) and the overview of [eligibility requirements for Special Consideration](#).

Late Submission

All assignments that are officially received after the due date, and where no extension or special consideration has been granted, will incur a deduction of 5% per day, including weekends and public holidays and the actual day received. This will continue up until 10 days after due date, after which the assignment if submitted will be awarded a mark of zero. For example:

Due date	Received	Days late	Deduction	Raw mark	Final mark
Friday 14th	Monday 17th	3	15%	75%	60%

Assessment Tasks

Name	Weighting	Hurdle	Due
Research Engagement	30%	No	Weeks 2 to 12, lab book/diary due 5pm Friday Week 13
Conference Presentation	35%	No	In class, Week 7
Conference paper	35%	No	5pm Friday Week 14

Research Engagement

Assessment Type ¹: Lab book

Indicative Time on Task ²: 6 hours

Due: **Weeks 2 to 12, lab book/diary due 5pm Friday Week 13**

Weighting: **30%**

Contribution in your research placement, including documentation of research activities in a laboratory book or research diary and participating in research activities and discussion.

On successful completion you will be able to:

- Participate in the day-to-day running of a research group and the responsibilities of self-directed postgraduate 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.

Conference Presentation

Assessment Type ¹: Presentation

Indicative Time on Task ²: 15 hours

Due: **In class, Week 7**

Weighting: **35%**

A scientific presentation on the aims of your work, a critical appraisal of the methods being employed to achieve that aim, and presentation of any preliminary data.

On successful completion you will be able to:

- Review advanced theoretical and/or practical knowledge of a field of research and apply this knowledge to a small research project.
- Participate in the day-to-day running of a research group and the responsibilities of self-directed postgraduate 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.

Conference paper

Assessment Type ¹: Professional writing

Indicative Time on Task ²: 15 hours

Due: **5pm Friday Week 14**

Weighting: **35%**

An article in the form of a conference proceeding based on the research work conducted during the semester.

On successful completion you will be able to:

- Review advanced theoretical and/or practical knowledge of a field of research and apply this knowledge to a small research project.
- Participate in the day-to-day running of a research group and the responsibilities of self-directed postgraduate 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. The remaining contact hours are delivered through a co-location model with the Research Placement Units offered within the Masters of Research (MEDI7041 and MEDI7042) and Bachelor of Clinical Sciences (MEDI3900). Learning activities, outcomes and assessments differ between the different cohorts but co-locating these units allows candidates to participate in peer activities relevant to research engagement such as research discussions, presentations and critique.

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 Department of Biomedical Sciences 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 serves as an important written record in research and may be used to guide future work in your host group. This documentation will remain the property of the research group at the end of the placement.

Unit Schedule

Week 1: Unit introduction.

Weeks 2 to 13: Placement in research group. The majority of your contact hours will be through supervised work in the research placement, involvement in your research group's meetings, and meetings with your research supervisors. It is expected that a minimum of a day and a half per week is spent on these activities combined with other research activities (literature surveys, data analysis etc).

Workshops informing the unit assessments will be conducted periodically through the session.

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](#)
- [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 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.