



MEDI7041

Research Rotation 1

Session 2, Weekday attendance, North Ryde 2020

Medicine, Health and Human Sciences Faculty level units

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Disclaimer

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Notice

As part of [Phase 3 of our return to campus plan](#), most units will now run tutorials, seminars and other small group learning activities on campus for the second half-year, while keeping an online version available for those students unable to return or those who choose to continue their studies online.

To check the availability of face to face activities for your unit, please go to [timetable viewer](#). To check detailed information on unit assessments visit your unit's iLearn space or consult your unit convenor.

General Information

Unit convenor and teaching staff

Angela Laird

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Credit points

10

Prerequisites

Admission to MRes

Corequisites

Co-badged status

Unit description

This unit is the first of two units facilitating research within the first year of the Masters of Research within the Faculty of Medicine and Health 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://students.mq.edu.au/important-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 Schedule 1 of the Macquarie University Assessment Policy, which is available at: <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/assessment>.

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

All final grades in the Masters of Research are determined by a grading committee and are not the sole responsibility of the Unit Convenor.

Students will be awarded a final grade plus a Standardised Numerical Grade (SNG). The SNG is not necessarily a summation of the individual assessment components. The final grade and SNG that are awarded reflect the corresponding grade descriptor in the Grading Policy.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes, attempt all assessment tasks, meet any ungraded requirements including professionalism and achieve an SNG of 50 or better.

Student Professionalism

In the Faculty of Medicine and Health 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 tutorials, as well as complete online and laboratory-based practical sessions.

Furthermore, lectures and seminars are key learning activities that you are expected to attend throughout the Masters of Research program. While audio recordings and lecture slides may be made available following these large group sessions, it is important to recognise that such resources are a study aid - and should not be considered an alternative to lecture or seminar attendance.

Students who do not maintain adequate attendance (greater than or equal to 80% of scheduled classes) may be deemed unable to meet expectations regarding professionalism and may be referred for disciplinary action (which may include exclusion from assessments and unit failure).

Similarly, as part of developing professionalism, students are expected to submit all work by the due date. Applications for assessment task extensions must be supported by appropriate evidence and submitted via ask.mq.edu.au. For further details please refer to the Special

Consideration Policy available at <https://students.mq.edu.au/study/my-study-program/special-consideration>

Submission of assignments

All written assignments are to be submitted in Turnitin. The marking rubric is contained within the Turnitin submission system. Instructions on submitting assignments and how to access marks and feedback through Turnitin are available through this link: [Turnitin](#).

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 will not be accepted. 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	15%	No	Weeks 2 to 12. Lab book/research diary due Week 6 and 12.
Project Proposal	25%	No	Week 4
Poster Presentation	30%	No	Week 7
Mini-paper submission	30%	No	Week 14

Research engagement

Assessment Type ¹: Lab book

Indicative Time on Task ²: 6 hours

Due: **Weeks 2 to 12. Lab book/research diary due Week 6 and 12.**

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.

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: **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.

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 [Learning Skills Unit](#) 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 hours are delivered through a co-location model with the Research Placement Units offered within the Masters of Research (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.

Technology Used

Completion of online training and learning activities throughout the unit will require students to have access to a tablet, laptop or similar device. Students who do not own their own laptop computer may borrow one from the university library.

Required Unit Materials

For placements in laboratories within the Department of Biomedical Sciences, all students 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

Before students will be provided with laboratory access for their research placements they will be required to complete online training modules and a face-to-face laboratory induction. Further details are available in iLearn. **COVID19 update: MEDI7041 will be delivered on-line in session 2, 2020. Laboratory inductions will not be necessary.**

Recommended Readings

Details of recommended readings will be provided by supervisors in the host research group. Students 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 their understanding of the research topic, and assist in preparation of assessed material.

Research Documentation

Students should keep a laboratory lab book or log for documentation of their day-to-day work, including details such as experimental methods, observations, results and 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

Introduction to the unit and tasks to complete online training modules and laboratory induction.

Weeks 2 to 13. Research Placement.

It is expected that each week at least one and a half days (approximately 11 hours) be spent engaged in research activities, whether that be laboratory work, preparation/analysis of data, learning through critical review of literature, or participating in research group discussions. Research activities will be conducted under the supervision of a staff researcher with possible assistance from a senior PhD student. Masters of Research candidates will either assist with a currently running project, or conduct a small independent project (at the discretion of the laboratory head).

- **Week 2 to 6** - Research placement 1
- **Week 8 to 12** - Research placement 2

Classes

Classes will not be held every week as the majority of the hours for this unit will be spent in your research placement setting. Learning opportunities for scientific communication may be held to

assist in completing the assessment tasks.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). 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](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

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

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/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 Enquiry Service

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

Equity 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.

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.

Changes from Previous Offering

MEDI7041 in session 2 of 2020 will not include face-to-face activities due to current University guidelines on learning and teaching activities in response to COVID19 conditions.