MEDI7041

Research Rotation 1

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

Macquarie Medical School

Contents

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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 first 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 contemporaryresearch.

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

ULO3: Acquire, analyse, and interpret research data and methods in a way suitable forpresentation 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
Project Proposal	25%	No	Week 4
Poster Presentation	30%	No	In class, Week 7
Mini-paper submission	30%	No	Week 14
Research engagement	15%	No	Assessed over weeks 2-12, Lab book due Week 7 and Week 13

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 contemporaryresearch.
- Acquire, analyse, and interpret research data and methods in a way suitable forpresentation 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 contemporaryresearch.
- Participate in the day-to-day running of a research group and the responsibilities

inresearch and collaborate in discussion centred around research ideas, methods, anddata.

- Acquire, analyse, and interpret research data and methods in a way suitable forpresentation 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 contemporaryresearch.
- Participate in the day-to-day running of a research group and the responsibilities inresearch and collaborate in discussion centred around research ideas, methods, anddata.
- Acquire, analyse, and interpret research data and methods in a way suitable forpresentation 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 over weeks 2-12, Lab book due Week 7 and Week 13**
Weighting: **15%**

Contribution in research placement.

On successful completion you will be able to:
- Communicate advanced theoretical and practical knowledge of fields of contemporaryresearch.
- Participate in the day-to-day running of a research group and the responsibilities inresearch and collaborate in discussion centred around research ideas, methods, anddata.

[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 (when COVID restrictions allow it) or work with other teams within other settings within the Faculty. The remaining contact hours are delivered through a co-location model with other Research Placement Units (MEDI7042 and 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 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.

Weeks 2-6: You will work on your first 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 8-12: You will work on your second 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.

Week 1, 2, 5 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). 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). 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 an d 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.