



MEDI3900

Research Experience and Training

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 and Lecturer

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Contact via email

Consultation by appointment

Course Director

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Credit points

10

Prerequisites

(130cp at 1000 level or above) and permission by special approval

Corequisites

Co-badged status

Unit description

This unit will provide you with an insight into how research is conducted and research experience through a placement within a research team within the Faculty of Medicine, Health and Human Sciences . You will develop research skills and contribute to a research project under the supervision of a researcher within the Faculty. You will also develop your scientific communication skills allowing you to confidently discuss and present scientific methodology and findings. This unit is subject to a quota. Limited places are available. Please refer to the Faculty for further information.

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: Describe main fields of contemporary medical and health-related research.

ULO2: Perform research under supervision.

ULO3: Critique and review medical and health-related research methods and/or data.

ULO4: Evaluate scientific literature and relate to medical and health-related research data collected.

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 Convenors.

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, students 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 Submission

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 11.55 pm. A one-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.

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
Graphical abstract	20%	No	Week 4
Poster Presentation and Discussion	30%	No	Week 13
Research proposal	20%	No	Week 6
Research Engagement	30%	No	Assessed from Week 2-11 (Lab book due Week 12)

Graphical abstract

Assessment Type ¹: Professional writing

Indicative Time on Task ²: 15 hours

Due: **Week 4**

Weighting: **20%**

Creation of a graphical abstract of the work of a peer.

On successful completion you will be able to:

- Describe main fields of contemporary medical and health-related research.
- Critique and review medical and health-related research methods and/or data.

Poster Presentation and Discussion

Assessment Type ¹: Poster

Indicative Time on Task ²: 20 hours

Due: **Week 13**

Weighting: **30%**

A poster presentation on the research activities undertaken during your placement and engagement in discussion with peers of own and others research activities.

On successful completion you will be able to:

- Describe main fields of contemporary medical and health-related research.
- Perform research under supervision.
- Critique and review medical and health-related research methods and/or data.
- Evaluate scientific literature and relate to medical and health-related research data collected.

Research proposal

Assessment Type ¹: Report

Indicative Time on Task ²: 15 hours

Due: **Week 6**

Weighting: **20%**

Research proposal based on the research placement.

On successful completion you will be able to:

- Describe main fields of contemporary medical and health-related research.
- Evaluate scientific literature and relate to medical and health-related research data collected.

Research Engagement

Assessment Type ¹: Log book

Indicative Time on Task ²: 5 hours

Due: **Assessed from Week 2-11 (Lab book due Week 12)**

Weighting: **30%**

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

On successful completion you will be able to:

- Describe main fields of contemporary medical and health-related research.
- Perform research under supervision.
- Evaluate scientific literature and relate to medical and health-related research data collected.

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 online and face-to-face learning activities, including online modules, face-to-face classes and practical research. Details can be found on the iLearn site for this unit.

Delivery

The practical 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.

Technology Used

Active participation in the 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 Macquarie Medical School you are required to wear closed shoes that cover the whole foot and a laboratory gown/coat (which is provided) whilst in the laboratory venue.

Online training modules and laboratory inductions

If you need access to the laboratory for your research 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. You will be notified of your allocated research project.

Weeks 2-11 (excluding session break): You will work on 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, 4, 9, 12 and 13: You will have classes or workshops scheduled to help with 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.

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., 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.