MEDI2900

Introduction to Medical Research

Session 3, Weekday attendance, North Ryde 2020

Department of Biomedical Sciences

Contents

Disclaimer

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

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 and online 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 Itsu Sen itsu.sen@mq.edu.au Cara Hildreth cara.hildreth@mq.edu.au
Credit points 10
Prerequisites 40cp at 1000 level or above
Corequisites
Co-badged status
Unit description Through this unit, you will begin to develop the required knowledge and skills to participate in basic research in the field of health or biomedical science. You will learn about the importance of appropriate research notetaking and record keeping. Building upon this, you will learn about widely used research methodology, gain an appreciation for the translational capacity of medical research as well as the application of emerging medical technology. You will be provided the opportunity to develop your skills in research planning and communication, setting you up for future studies that integrate research within your learning.

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: Recognise the basic research methods to prepare and commence research

ULO2: Apply basic methods to perform research data analysis, data collection, and data storage.

ULO3: Create and maintain appropriate research notes and records

ULO4: Evaluate and discuss scientific literature

General Assessment Information

General Information Grade descriptors and other information concerning grading are contained in the Macquarie University Grading Policy, which is available at: http://www.mq.edu.au/policy/ docs/grading/policy.html

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes and complete all assessment tasks. Further details for each assessment task will be available on iLearn.

All final grades in the Bachelor of Clinical Science are determined by a grading committee and are not the sole responsibility of the Unit Convenor. Students will be awarded one of these grades 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.

Attendance requirements Students are required to attend a minimum of 80% of their scheduled learning activities, unless special consideration is granted by the unit convenor. Where a student does not attend a minimum of 80% of classes, they may not be able to pass this unit.

Extensions for Assessment tasks Applications for assessment task extensions must be submitted via www.ask.mq.edu.au. For further details please refer to the Disruption to Studies Policy available at http://mq.edu.au/policy/ docs/ disruption_studies/policy.html

Late Submission of Work All assignments which are officially received after the due date, and where no extension has been granted by the course convenor or tutor, will incur a deduction of 10% for the first day, and 10% for each subsequent day including the actual day on which the work is received. Weekends and public holidays are included.

Assessment Tasks

Name	Weighting	Hurdle	Due
Medical Research Study	50%	No	Week 6
Statistical Data Analysis	30%	No	Week 6
Lab report	20%	No	Week 4

Medical Research Study

Assessment Type [1]: Report
Indicative Time on Task [2]: 20 hours
Due: **Week 6**
Weighting: **50%**

Using a research project and associated data, students will analyse the data and provide a research report that introduces the project and presents and discusses the results.

On successful completion you will be able to:

- Recognise the basic research methods to prepare and commence research
- Apply basic methods to perform research data analysis, data collection, and data storage.
- Create and maintain appropriate research notes and records
- Evaluate and discuss scientific literature

Statistical Data Analysis

Assessment Type [1]: Quantitative analysis task
Indicative Time on Task [2]: 10 hours
Due: **Week 6**
Weighting: **30%**

Students will be provided with a data set in which to perform statistical and descriptive analysis.

On successful completion you will be able to:

- Recognise the basic research methods to prepare and commence research
- Apply basic methods to perform research data analysis, data collection, and data storage.
- Create and maintain appropriate research notes and records

Lab report

Assessment Type [1]: Lab report
Indicative Time on Task [2]: 20 hours
Due: **Week 4**
Weighting: **20%**

A written report that describes and discusses experimental observations and results acquired during practical classes.

On successful completion you will be able to:

- Recognise the basic research methods to prepare and commence research
- Create and maintain appropriate research notes and records
- Evaluate and discuss scientific literature

---

[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

Technology Used Active participation in the learning activities throughout the unit may require students to have access to a laptop or similar device which has been installed Excel and MATLAB environment. Students who do not own their own laptop computer may borrow one and install the software from the university library.

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). 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). 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).

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 Services and 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.

Student Enquiries

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

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.