FOSE7000

Research Communications in Science and Engineering

Session 2, In person-scheduled-weekday, North Ryde 2022

Science and Engineering Faculty level units

Contents

Disclaimer

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General Information

Unit convenor and teaching staff
Convenor
Matthew Kosnik
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14ER-330 / x 7248
before / after scheduled class times or anytime by appointment.

Credit points
10

Prerequisites
Admission to MRes

Corequisites

Co-badged status

Unit description
This unit teaches students to effectively communicate research concepts and findings to specialist and non-specialist audiences in written, oral and visual forms. It explores the critical link between the creation of disciplinary knowledge and the dissemination of that knowledge to benefit human societies. The unit emphasises the importance of maintaining standards of academic integrity in publication and communication. It also specifically addresses the steps involved in producing a high-quality research thesis.

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: Effectively communicate research concepts and findings to specialist and non-specialist audiences

ULO2: Demonstrate advanced writing and presentation skills

ULO3: Provide constructive feedback to others

ULO4: Evaluate current issues and debates in research ethics and integrity

General Assessment Information

Engagement – please read, as this is very important

As a BPhil / MRes Yr 1 student you are part of the Faculty of Science and Engineering research community. You are expected to actively participate in the unit activities by: asking questions, voicing your opinions, particpating in discussions, providing constructive feedback to your peers, and proactively working to find your place in our diverse research community. You are expected to contribute to a supportive and respectful dialogue. Disrespectful, offensive, belittling or exclusionary behaviour will not be tolerated (https://policies.mq.edu.au/document/view.php?id=55).

Academic Honesty

Academic integrity is fundamental to research. Presenting another person's work as your own is a serious breach of the University's rules and carries significant penalties. The University's Academic Honesty Policy can be found at http://www.mq.edu.au/policy/docs/academic_honesty/policy.html

In this unit, all written work will be checked for plagiarism using Turnitin. Penalties for plagiarism may include a zero mark for the assignment or in more extreme cases, failure of the unit. Plagiarism will be noted on your academic record. Full details of penalties can be found at http://www.mq.edu.au/policy/docs/academic_honesty/schedule_penalties.html

Individual assessments

Each assessment has been designed to be as authentic to as possible. Marking criteria / guidance for each assessment are provided via iLearn. Due to the number of students the oral presentations will be split over weeks 12 and 13, but all student AV is due prior to the workshop in week 12 (even if you are not presenting until week 13). Both poster and oral presentations require an abstract to be submitted 3 weeks prior to the presentation (see iLearn and linked marking critera for extra details). All of your assessments will be based in your own discipinary area, but each presentation must cover a distinct topic.

Due dates and assessement topics

All assessments are due prior to the weekly scheduled workshop for the week indicated in the unit guide. Any student who is unable to meet a deadline should contact the unit convenor prior to the deadline to (possibly) avoid late pentalties.

Late Assessment Submission Penalty

From 1 July 2022, Students enrolled in session based units with written assessments will have the following university standard late penalty applied. Please see https://students.mq.edu.au/study/assessment-exams/assessments for more information.   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 1-hour grace period is provided to students who experience a technical concern.   For any late submission 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.

Assessments where Late Submissions will be accepted

In this unit, late submissions will accepted as follows:

- The summary paragraph, general audience writing piece and integrity reflection are subject to the standard late submission penalty. The abstract portion of the oral and poster presentations are also subject to the standard late submission penalty.
- Oral and poster presentations must be given during the allocated time slots to the audience of your peers and markers, so late presentations will not be allowed unless a special consideration is granted. Providing peer feedback on the oral and poster presentations requires you to be present at the allocated time slots, so late feedbak will not be allowed unless a special consiferation is granted.
- See marking guidance on iLearn or consult the convenor for additional information.

Assessment Tasks

Name	Weighting	Hurdle	Due
Summary	10%	No	Week 3
Integrity reflection	15%	Yes	Week 5 or as agreed.
Poster presentation	25%	No	Week 4 & Week 7
General audience writing piece	25%	No	Week 10
Oral presentation	25%	No	Week 9 & Week 12/13

Summary

Assessment Type [1]: Professional writing
Indicative Time on Task [2]: 7 hours
Due: **Week 3**
Weighting: **10%**

You will write a summary of a current research topic in your discipline suitable for a general audience (analogous to the summary included in ARC grants).

On successful completion you will be able to:

- Effectively communicate research concepts and findings to specialist and non-specialist audiences
- Demonstrate advanced writing and presentation skills

Integrity reflection

Assessment Type [1]: Reflective Writing
Indicative Time on Task [2]: 7 hours
Due: **Week 5 or as agreed.**
Weighting: **15%**
This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)

You will write a short reflection on a current topic in integrity, ethics and/or inclusion relevant to your discipline.

On successful completion you will be able to:

- Effectively communicate research concepts and findings to specialist and non-specialist audiences
- Demonstrate advanced writing and presentation skills
- Evaluate current issues and debates in research ethics and integrity

Poster presentation

Assessment Type [1]: Poster
Indicative Time on Task [2]: 21 hours
Due: **Week 4 & Week 7**
Weighting: **25%**

You will prepare and present a research poster to a professional standard aimed at an audience of your peers, and you will provide constructive feedback on the posters of others.

On successful completion you will be able to:

- Effectively communicate research concepts and findings to specialist and non-specialist audiences
- Demonstrate advanced writing and presentation skills
- Provide constructive feedback to others

General audience writing piece

Assessment Type [1]: Non-academic writing
Indicative Time on Task [2]: 21 hours
Due: **Week 10**
Weighting: **25%**

You will write a piece for a general audience (analogous to the Macquaire Lighthouse or Conversation) on a current research topic in your discipline.

On successful completion you will be able to:
- Effectively communicate research concepts and findings to specialist and non-specialist audiences
- Demonstrate advanced writing and presentation skills

Oral presentation

Assessment Type [1]: Presentation
Indicative Time on Task [2]: 21 hours
Due: **Week 9 & Week 12/13**
Weighting: **25%**

You will deliver an oral presentation on a current research topic in your discipline aimed at an audience of your peers, and you will provide constructive feedback on the presentations of others.

On successful completion you will be able to:
- Effectively communicate research concepts and findings to specialist and non-specialist audiences
- Demonstrate advanced writing and presentation skills
- Provide constructive feedback to others

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[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

You are encouraged to attend class in person if at all possible. If you cannot attend in person, you are still required to attend classes during the scheduled time online (see iLearn for links). Please bring a laptop or tablet to each workshop to facilitate your participation in workshop activities.

Remote / online / off-shore students: If you are not based in the greater Sydney area you must email the convenor as soon as possible to discuss study options. Remote / online engagement is possible, but with greater notice comes more time to plan our options.

COVID Information and on-campus classes: On-campus teaching is the default mode of delivery. Masks and social distancing are encouraged wherever possible.

Students are requested to minimise the risk of spreading COVID to themselves and others in accordance with the university and NSW Health guidelines: https://www.mq.edu.au/about/coronavirus-faqs and https://www.nsw.gov.au/covid-19/stay-safe. *Students who feel unwell due to any illness are requested to participate in workshops using the online option rather than attend in person (see iLearn for links).* Any further requirements or changes to the unit in relation to COVID will be communicated to students via iLearn.

Unit Schedule

Weeks 7, 12 & 13 are dedicated to student presentations. The other weeks are typically 2 x 1.5 hr sessions with half or more of those sessions spend engaged in participatory activities.

See detailed schedule on iLearn.

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 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.

Changes from Previous Offering

This unit has been redeveloped from the ground up for 2022. We are actively seaking your feedback on the unit content and delivery to further improve it. Students are requested and ecouraged to keep notes and provide feedback on activities as well as any other suggestions on what content may be under / over represented in the unit.