COMP1900

Computing Research I

Session 2, Special circumstance 2020

Department of Computing

Contents

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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 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 Matthew Roberts matthew.roberts@mq.edu.au
Credit points 10
Prerequisites Admission to BAdvIT
Corequisites
Co-badged status
Unit description This unit on advanced topics in computing is geared towards students enrolled in Bachelor of Advanced IT. It will give students experience in working in a research environment whilst learning about computing topics that are at the frontier of research. Topics will include the Internet of Things, Cybersecurity, Data Science, Programming Languages, Natural Language processing and advanced modelling and algorithmic techniques.

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: Demonstrate knowledge of several research topics

ULO2: Demonstrate general research skills including summarisation, writing and presentation skills

ULO3: Demonstrate an awareness of how technology/computing research can contribute to the wider discipline and/or to address problems in society generally

ULO4: Communicate scientific topics to a generalist audience.

General Assessment Information

Late Submission No extensions will be granted without an approved application for Special Consideration. There will be a deduction of 10% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late. For example,

25 hours late in submission for an assignment worth 10 marks – 20% penalty or 2 marks deducted from the total. No submission will be accepted after solutions have been posted.

Assessment Tasks

Name	Weighting	Hurdle	Due
Scientific blog	40%	Yes	Weeks 4-12
Summarise a research paper	30%	No	Week 13
Research seminar participation	30%	Yes	Weeks 2-12

Scientific blog

Assessment Type [1]: Log book
Indicative Time on Task [2]: 40 hours
Due: **Weeks 4-12**
Weighting: **40%**
This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)

Students will be asked to create a scientific blog to explain or comment on the science they have learned either in seminar attendance or their own reading.

On successful completion you will be able to:

- Demonstrate knowledge of several research topics
- Demonstrate general research skills including summarisation, writing and presentation skills
- Demonstrate an awareness of how technology/computing research can contribute to the wider discipline and/or to address problems in society generally
- Communicate scientific topics to a generalist audience.

Summarise a research paper

Assessment Type [1]: Report
Indicative Time on Task [2]: 40 hours
Due: **Week 13**
Weighting: **30%**

Choose a research paper and provide a short summary including how it contributes to a broad

research topic.

On successful completion you will be able to:

- Demonstrate knowledge of several research topics
- Demonstrate general research skills including summarisation, writing and presentation skills
- Demonstrate an awareness of how technology/computing research can contribute to the wider discipline and/or to address problems in society generally
- Communicate scientific topics to a generalist audience.

Research seminar participation

Assessment Type [1]: Participatory task
Indicative Time on Task [2]: 30 hours
Due: **Weeks 2-12**
Weighting: **30%**
This is a hurdle assessment task (see assessment policy for more information on hurdle assessment tasks)

Students will attend a number of research presentations covering key research themes within the department and discuss in the weekly workshop.

On successful completion you will be able to:

- Demonstrate knowledge of several research topics
- Demonstrate an awareness of how technology/computing research can contribute to the wider discipline and/or to address problems in society generally

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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

COMP1900 will make extensive use of the iLearn course management system, including for delivery of class materials, discussion boards, online self-tests, submission of work and access to marks and feedback. Students should check the iLearn site (https://ilearn.mq.edu.au) regularly for unit updates.

Questions and general queries regarding the content of this unit, its lectures or practical classes, or its assessments should be posted to the discussion boards on the COMP1900 iLearn site. In particular, any questions which are of interest to all students in this unit should be posted to one of these discussion boards, so that everyone can benefit from the answers. Questions of a private nature should be directed to the unit teaching staff.

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.