



# COMP1900

## Computing Research I

Session 1, Weekday attendance, North Ryde 2020

*Dept of Computing*

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### Disclaimer

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## General Information

Unit convenor and teaching staff Matthew Roberts <a href="mailto:matthew.roberts@mq.edu.au">matthew.roberts@mq.edu.au</a>
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://students.mq.edu.au/important-dates>

## Learning Outcomes

- 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
<a href="#">Research group participation</a>	30%	Yes	week 13
<a href="#">Scientific blog</a>	40%	Yes	week 13
<a href="#">Summarise a research paper</a>	30%	No	week 13

### Research group participation

Assessment Type <sup>1</sup>: Participatory task

Indicative Time on Task <sup>2</sup>: 25 hours

Due: **week 13**

Weighting: **30%**

**This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks)**

Students will attend lectures and presentations and research discussions within established research groups covering key research themes within the department.

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

### Scientific blog

Assessment Type <sup>1</sup>: Log book

Indicative Time on Task <sup>2</sup>: 40 hours

Due: **week 13**

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 <sup>1</sup>: Report

Indicative Time on Task <sup>2</sup>: 20 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.

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<sup>1</sup> If you need guidance or support to understand or complete this type of assessment, please contact the Learning Skills Team

<sup>2</sup> 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-centr) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-centr>)

al). 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) (<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](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<http://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](http://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto: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](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## Student Enquiry Service

For all student enquiries, visit Student Connect at [ask.mq.edu.au](https://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Equity 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.

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](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

New unit.