COMP1010
Fundamentals of Computer Science
Session 1, Weekday attendance, North Ryde 2020

Department of Computing

Coronavirus (COVID-19) Update
Due to the Coronavirus (COVID-19) pandemic, any references to assessment tasks and on-campus delivery may no longer be up-to-date on this page.
Students should consult iLearn for revised unit information.
Find out more about the Coronavirus (COVID-19) and potential impacts staff and students

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General Information

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Credit points
10
Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at [https://students.mq.edu.au/important-dates](https://students.mq.edu.au/important-dates)

Learning Outcomes

On successful completion of this unit, you will be able to:

- **ULO1**: apply enhanced problem solving skills to develop algorithms
- **ULO2**: implement programs from algorithms, showing an understanding of the underlying architecture of the computer
- **ULO3**: adhere to standard software engineering practices, including documentation, unit testing and debugging
- **ULO4**: compare different methods available for the same problem in terms of efficiency and other criteria
- **ULO5**: demonstrate foundational learning skills including active engagement in their learning process

Assessment Tasks

**Coronavirus (COVID-19) Update**

Assessment details are no longer provided here as a result of changes due to the Coronavirus (COVID-19) pandemic.

Students should consult [iLearn](https://ilearn.mq.edu.au) for revised unit information.

Find out more about the Coronavirus (COVID-19) and potential impacts staff and students
Delivery and Resources

Coronavirus (COVID-19) Update
Any references to on-campus delivery below may no longer be relevant due to COVID-19.
Please check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

CLASSES
Each week you should attend

- three hours of lectures,
- two hour practical class

For details of days, times and rooms consult the timetables webpage.

Note that Lectures and Practical classes commence in week 1.

You should have selected a practical class during enrolment. You should attend the practical class in which you are enrolled. You won't always get the class of your choice. Check availabilities via eStudent regularly. If ALL practical classes are full, only then, contact the convenor.

Please note that you are required to submit work regularly. You will get the help that you need by attending your practical class. Failure to submit work may result in you failing the unit (see the precise requirements in the "Grading Standards" section) or being excluded from the final examination.

TEXTS AND/OR MATERIALS
Lecture notes: https://rebrand.ly/COMP1010LectureNotes
Video tutorials: https://rebrand.ly/COMP1010VideoTutorials

- Online edition of this book is available through MQ Library. There can be up to 5 simultaneous accesses. Click on "Full text available at: 2018 eTextbooks" and login with OneID and password.

TECHNOLOGY USED AND REQUIRED
Audio and Video Lecture
Digital recordings of lectures are available from within iLearn via Active Learning Platform.

Technology

- **Java SE** - download the latest Java SE to be compatible with the labs.
- **Eclipse** and **Visual Studio Code** - the IDEs we shall be using during the session.
- Learning Management System **iLearn**
- **http://codingbat.com/** for programming exercises.

Discussion Boards

The unit makes use of forums hosted within **iLearn**. Please post questions there, they are monitored by the unit staff.

Unit Schedule

**Coronavirus (COVID-19) Update**

The unit schedule/topics and any references to on-campus delivery below may no longer be relevant due to COVID-19. Please consult **iLearn** for latest details, and check here for updated delivery information: [https://ask.mq.edu.au/account/pub/display/unit_status](https://ask.mq.edu.au/account/pub/display/unit_status)

Note that three important themes will pervade the entire unit:

1. **Problem solving**. A crucial skill for all of the weekly topics will be to write appropriate code to meet a given problem specification. This theme relates to the first two learning outcomes for this unit.
2. **Software development**. Use of the JUnit testing framework is an important development practice which will be taught from the beginning, and used throughout the unit. This theme relates to the third learning outcome of this unit.
3. **Comparing different solution methods**. Very often different algorithms are available for the same problem. Another important skill to develop throughout this unit is the ability to compare different algorithms in terms of efficiency and other criteria. This theme relates to the fourth learning outcome of this unit.

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<th>Topic</th>
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<td>Programming environment (language, IDEs)</td>
<td>Diagnostic test (does not contribute towards final mark)</td>
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<td>Problem solving, JUnit testing</td>
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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 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

If you are a Global MBA student contact 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/

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.