



# ENGG1000

## Introduction to Engineering

Session 2, Special circumstance 2020

*School of Engineering*

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#### 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<br>Convenor<br>Nicholas Tse<br><a href="mailto:nicholas.tse@mq.edu.au">nicholas.tse@mq.edu.au</a><br>Appointment via Email   |
| Credit points<br>10   |
| Prerequisites   |
| Corequisites  |
| Co-badged status  |
| Unit description<br>The 1st SPINE unit aimed to develop professional, transferable and employability skills. The unit will be hands-on from day 1 with engineering skills workshops supported by a series of online modules. Students will develop insight into how engineers solve problems and improve society throughout the built world. You will be exposed to the various fields of engineering and an appreciation of design elements. Students will develop self-efficacy and skills that will help you transition into University study. |

## 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 practical skills in prototyping engineering designs.

**ULO2:** Follow safe working procedures when working with others.

**ULO3:** Apply strategies and tools to organise and conduct knowledge discovery independently.

**ULO4:** Work and interact in accordance to the code of ethics and guidelines of engineering accreditation organisations.

**ULO5:** Articulate independent thinking and effectively communicate ideas and concepts.

## General Assessment Information

### Grading and passing requirement for unit

In order to pass this unit, a student must obtain a mark of 50 or more for the unit (i.e. obtain a passing grade P/ CR/ D/ HD).

For further details about grading, please refer below in the policies and procedures section.

### Hurdle Requirements

"You must attend and participate in at least 8 of the 10 hands-on skills development workshop classes to pass this unit. This is a hurdle requirement.

## Assessment Tasks

| Name  | Weighting | Hurdle | Due                |
|---|-----------|--------|--------------------|
| <u>Professional portfolio on professional development</u> | 20%       | No     | Week 13            |
| <u>Prototyping skill development 1</u>                    | 20%       | No     | Week 6-7           |
| <u>Weekly Quiz</u>  | 30%       | No     | Week 3,5,7,9,11,13 |
| <u>Prototyping skill development 2</u>                    | 20%       | No     | Week 12-13         |
| <u>Participation of scheduled activities</u>              | 10%       | Yes    | Weekly             |

### Professional portfolio on professional development

Assessment Type <sup>1</sup>: Portfolio

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

Due: **Week 13**

Weighting: **20%**

Curate a professional portfolio that demonstrates the development of professional identity, self-improvement and learning artifacts.

On successful completion you will be able to:

- Work and interact in accordance to the code of ethics and guidelines of engineering accreditation organisations.
- Articulate independent thinking and effectively communicate ideas and concepts.

## Prototyping skill development 1

Assessment Type <sup>1</sup>: Design Implementation

Indicative Time on Task <sup>2</sup>: 5 hours

Due: **Week 6-7**

Weighting: **20%**

Developing the required hands on competency relating to a chosen engineering field. The activities emphasis on competency skills development that are translatable across other engineering domains. E.g. Technical drawing skill is an underpinning skill in both mechanical and civil engineering design communication.

On successful completion you will be able to:

- Demonstrate practical skills in prototyping engineering designs.
- Follow safe working procedures when working with others.
- Articulate independent thinking and effectively communicate ideas and concepts.

## Weekly Quiz

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Week 3,5,7,9,11,13**

Weighting: **30%**

Weekly Quiz on audio podcasts and other professional development topics

On successful completion you will be able to:

- Follow safe working procedures when working with others.
- Apply strategies and tools to organise and conduct knowledge discovery independently.
- Articulate independent thinking and effectively communicate ideas and concepts.

## Prototyping skill development 2

Assessment Type <sup>1</sup>: Design Implementation

Indicative Time on Task <sup>2</sup>: 5 hours

Due: **Week 12-13**

Weighting: **20%**

Developing the required hands on competency relating to a chosen engineering field. The activities emphasis on competency skills development that are translatable across other engineering domains. E.g. Technical drawing skill is an underpinning skill in both mechanical and civil engineering design communication.

On successful completion you will be able to:

- Demonstrate practical skills in prototyping engineering designs.
- Follow safe working procedures when working with others.
- Articulate independent thinking and effectively communicate ideas and concepts.

## Participation of scheduled activities

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

Indicative Time on Task <sup>2</sup>: 15 hours

Due: **Weekly**

Weighting: **10%**

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

Engagement of scheduled activities which includes workshop attendance, mentorship program etc. More information will be provided on iLearn.

On successful completion you will be able to:

- Demonstrate practical skills in prototyping engineering designs.
- Work and interact in accordance to the code of ethics and guidelines of engineering accreditation organisations.

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<sup>1</sup> 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.

<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

Required resources can either be purchase or loan. Refer to iLearn for more information.

## Unit Schedule

Refer to iLearn and lecture notes for the unit schedule.

## 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) (<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) (<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 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](http://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto: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/](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 is very similar to 20S1 ENGG1000. With the only difference in assessment weighting and delivery modes.

The workshop may be in the form of physical workshop and/or online Zoom sessions. More information on iLearn