

BIOM4953

Research Thesis C

Term 3, 2022



## Course Overview

### Staff Contact Details

#### Convenors

Name	Email	Availability	Location	Phone
Michael Stevenson	<a href="mailto:m.stevenson@unsw.edu.au">m.stevenson@unsw.edu.au</a>	By Appointment		
Tianruo Guo	<a href="mailto:t.guo@unsw.edu.au">t.guo@unsw.edu.au</a>			
Matthew Brodie	<a href="mailto:m.brodie@unsw.edu.au">m.brodie@unsw.edu.au</a>			

#### School Contact Information

Student Services can be [unsw.edu.au/level/farms](https://unsw.edu.au/level/farms)

## Course Details

Units of Credit 4

### Summary of the Course

The thesis provides an opportunity for you to bring together engineering knowledge from your previous years of study and apply these principles to innovative development of a specific design, process and/or the investigation of complex, open-ended problems that allow room for your creativity, and interpretation of results. There are multiple possible solutions or conclusions of sufficient complexity to require a degree of project planning. The thesis requires you to use scientific or engineering terms, manage a technical project and find appropriate engineering methods. You will also develop your ability to work in a research environment. You must identify a supervisor and project prior to enrolment.

### Course Aims

The thesis provides an opportunity for the student to bring together engineering knowledge from their previous years of study and apply these principles to innovative development of a specific design, process and/or the investigation of complex, open-ended problems that allow room for student creativity and interpretation of results. There must be multiple possible solutions or conclusions of sufficient complexity to require a degree of project planning from the student to formulate problems in engineering terms, manage an engineering project and applying engineering methods. Students also develop their ability to work in a research environment.

### Course Learning Outcomes

1. Develop a design or a process or investigate a hypothesis following engineering standards.
2. Critically reflect on a specialist body of knowledge related to the discipline.
3. Apply scientific and engineering methods to solve an engineering problem.
4. Analyse data objectively using quantitative and mathematical methods.
5. Demonstrate oral and written communication in professional and technical contexts.
6. To solve biomedical problems by applying CLOs 1-5

### Teaching Strategies

The course is taught as an individual research project, to develop a level of student autonomy.

Students in this cohort will complete their thesis over three terms (4+ weeks). The summary of the assessment is as follows

**Thesis A:** is intended that Thesis A cover the scoping, planning, and completion of the project. Students must have completed this assessment and passed in order for the course is worth 10% of your final thesis grade.

**Thesis B:** The primary intention behind Thesis B is to ensure students sta

and project work as they progress through the year. This subject is worth 10% of your final thesis grade. Students must have completed this assessment and passed in order to be eligible for the final thesis grade. This subject is worth 10% of your final thesis grade.

Thesis C continues the project work. The key deliverable is the poster presentation. This subject is worth 80% of your final thesis grade.

Upon completion of Thesis C, the final grade will be calculated and replaced by BIOM4951 and BIOM4952, replacing any E.C. components.

## Assessment

The aim of Thesis C is to finalise your research results and disseminate them in a professional manner. This is the final key part of being a successful researcher. To provide students with a realistic experience of being a researcher.

There are 3 assessment tasks for Thesis C.

- TC1: Written report (65%)
- TC2: Conference Presentations (10%)
- TC3: Participation (5%)

Students have the option to use Smarthinking to receive feedback on their work, which is accessed through Moodle.

Assessment task	Weight	Due Date	

5. Success in this assessment will involve both a clear and cohesive explain your research to engineers who are not necessarily in your field.
6. Depending on the social distancing restrictions, this assessment may be presented as a poster session.

**In Term 3, you will be presenting this poster as the BASIS of the**

This is not a Turnitin assignment

Additional details

Note that the poster is due in WEEK 8.

- 2. Initiative and Engagement
  - 1. Intellectual contribution
- 3. Sustained activity throughout the term
  - 1. Attendance at lab meetings
- 4. Diligence and competence in performing the task
  - 1. Amount of work and engagement with problem
  - 2. Risk assessments complete (when relevant)
  - 3. Other project-specific evidence (e.g. lab book completion)

## Attendance Requirements

Students are strongly encouraged to attend all classes and review lectures.

## Course Schedule

No lectures in this course.

[View class timetable](#)

### Timetable

Date	Type	Content
Week 8: 31 October - 4 November	Assessment	Poster Presentation on Wednesday of the BESS Industry Thesis Night)
Study Week: 21 November - 24 November	Assessment	Final Report Due Monday Week 11, 1
	Assessment	Submit your project exit form.



## Resources

### Prescribed Resources

Resources will be made available to help students guide them in their

## Extensions

You can apply for [special consideration](#) if illness or other circumstances interfere with assessment performance.

Other applications for extension of submission of thesis reports (e.g.

1. Discuss the possibility of an extension with your supervisor first.
2. Requests can then be lodged by <http://student.home.ty.ejs.jp> or your supervisor will then receive an email asking them to approve, before it is escalated.
3. Request must be made by term.
4. Panel decision will be made by end of week.
5. The decision will be made by a panel consisting of the HoS (or the Coordinator), and 1 other person.
6. Students should be alerted to the fact that this is not guaranteed getting an extension.
7. Typically, extensions are granted UP TO 3 weeks. The length of time requested and justified by the supervisor. Panel will decide the length.
- 8.

## Procedure if you fail Thesis A, B or C

Fail in Thesis A (interim report mark < 50%) in Thesis A again.

Fail in Thesis B (seminar marks < 50%) enrol in Thesis B again

Fail in Thesis C  
Students have three options.

1. re-enrol for Thesis A, B and C again, new project and supervisor
2. re-enrol for Thesis C again, same project - needs consent of an advisor
3. Student does further work, re-submits thesis. If mark is < 50% then needs to re-enrol.

This last option is only available if the original mark was >= 40, OR if taken before graduation (regardless of the original mark).

Fail in Thesis B & C (when taken simultaneously) re-enrol in Thesis B cannot concurrently enrol in C. They can then take Thesis C when Thesis B is completed.

## Industry based projects

We encourage students to seek partnerships with industry, so students

industry. However, if confidentiality is required, a confidential disclosure agreement will protect the intellectual property rights of the industry. Students or academic institutions should sign confidential disclosure agreements

## Submission of Assessment Tasks

Laboratory reports and major assignments [Non-Plagiarism Declaration Cover Sheet](#)

Assignments should be submitted on time. A daily penalty of 5% of the assignment will apply for work received after the due date. Any assignment will not be accepted. The only exemption will be when prior permission for late submission is granted by the Course coordinator. Extensions will be granted only on medical or other extreme circumstances.

# Academic Honesty and Plagiarism

## PLAGIARISM

Beware! An assignment that includes plagiarised material will receive a grade of 0. Students who plagiarise may fail the course. Students who plagiarise will have their names entered in the plagiarism register and will be liable to disciplinary action, including exclusion from the course. It is expected that all students must at all times submit their own work. Copying work or ideas of someone else without clearly acknowledging the source is plagiarism.

All assessments which you hand in must include a [Non-Plagiarism Declaration Cover Sheet](#) both individual and group work. Attach it to your assignment before submitting it to the Course Coordinator or at the School Office.

Plagiarism is the use of another person's work or ideas as if they were your own. If it is desirable to use other people's material you should adequately acknowledge the source.

## Academic Information

### COURSE EVALUATION AND DEVELOPMENT

Student feedback has helped to shape and develop this course, including on-line evaluations as part of UNSW's myExperience platform. We encourage you to complete such an on-line evaluation toward the end of the semester. Your feedback provided will be important in improving the course for future students.

### DATES TO NOTE

Refer to MyUNSW for Important Dates, available at: