



## Course Overview

### Staff Contact Details

#### Convenors

Name	Email	Availability	Location	Phone
Michael Steyer	<a href="mailto:genesis.biomedeng@unsw.edu.au">genesis.biomedeng@unsw.edu.au</a>	By Appointment		

### School Contact Information

Student Services can be [contacted via unsw.edu.au/education-services](https://www.unsw.edu.au/undergraduate/education/education-services)

## 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 innovatively develop the development of a specific design, process and/or the investigation of a complex, open-ended problems that allow room for your creativity, and the 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 innovatively develop the development of a specific design, process and/or the investigation of a complex, open-ended problems that allow room for student creativity, and the 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 project.
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 CLO 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 20% 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.



## Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

## Course Schedule

No lecture recordings available

[View class timetable](#)

### Timetable

Date	Type	Content
Week 7: 11 July July	Online Activity	Organise an Assessor for your seminar. Your seminar will be marked by supervisor and assessor.
Week 8: 18 July July	Online Activity	Organise a presentation time with your supervisor and assessor.
Study Week: 8 11 August	Assessment	Upload a copy of your slides via the Teams, prior to your presentation.
	Presentation	Present your seminar to your supervisor and assessor at the pre-arranged time and location.

## 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.tyze.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 disclos



## 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 Academic Integrity 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 or using the 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 your 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 them (giving the complete reference details). The Learning Centre provides further information on what constitutes plagiarism at <https://student.unsw.edu.au/plagiarism>

## 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:

<https://my.unsw.edu.au/student/resources/KeyDates.html>

### ACADEMIC ADVICE

For information about:

- " Notes on assessments and plagiarism,
- " Special Considerations,
- " School Student Ethics Officer, and
- " BESS

refer to the School website available at

<http://www.engineering.unsw.edu.au/biomedical-engineering/>

### Supplementary Examinations:

Supplementary Examinations for Term 2 2022 will be held on (TBC) shortly after the end of the semester.

This course outline sets out description of classes at the date the Course Outline was published. The nature of classes may change during the Term after the Course Outline is published. Please consult the Course Outline for the up to date class descriptions. If there is any inconsistency between the University timetable and the Course Outline (as published), the description in the Course Outline/Moodle applies.

### Image Credit

Synergies in Sound 2016

### CRICOS

CRICOS Provider Code: 00098G

### Acknowledgement of Country

We acknowledge the Bedegal people who are the traditional custodians of the Kensington campus is located.