



CVEN9453

Masters Project C

Term One // 2021

Course Overview

Staff Contact Details

Convenors

Name	Email	Availability	Location	Phone
Elena Atroshchenko	e.atroshchenko@unsw.edu.au	appointment by e-mail	CE607	MS Teams

School Contact Information

[Engineering Student Support Services](#) – The Nucleus - enrolment, progression checks, clash requests, course issues or program-related queries

[Engineering Industrial Training](#) – Industrial training questions

[UNSW Study Abroad](#) – study abroad student enquiries (for inbound students)

[UNSW Exchange](#) – student exchange enquiries (for inbound students)

[UNSW Future Students](#) – potential student enquiries e.g. admissions, fees, programs, credit transfer

Phone

(+61 2) 9385 8500 – Nucleus Student Hub

(+61 2) 9385 7661 – Engineering Industrial Training

(+61 2) 9385 3179 – UNSW Study Abroad and UNSW Exchange (for inbound students)

Course Details

Credit Points 4

Summary of the Course

Masters Project provides an opportunity for you to bring together engineering principles learned over your previous years of study and apply these principles to innovatively solve problems such as the development of a specific design, process and/or the investigation of a hypothesis. Master projects are complex, open-ended problems that allow room for your creativity, and the acquisition, analysis and interpretation of results. There are multiple possible solutions or conclusions at the outset and sufficient complexity to require a degree of project planning. The project requires you to formulate problems in scientific or engineering terms, manage a technical project and find solutions by applying scientific and engineering methods. You will also develop the ability to work in a research and development environment. You must identify a supervisor and project prior to enrolling in this course. This is the third course of the 3 course project structure.

Course Aims

The Masters Project is an individual project in which each student works under the guidance of a nominated member of the academic staff (Supervisor). A co-Supervisor may also be nominated depending on the set up of the project. The research may involve laboratory experiments, field or industry-based investigations, design applications or theoretical research.

The Masters Project aims to provide students with the opportunity to:

- Undertake and execute an academic research project;
- Produce a self-contained research thesis, which may be understood and used by others with technical background knowledge in the same discipline area as the thesis topic, and may potentially be suitable for publication;
- Present their research in a seminar/video.

Course Learning Outcomes

1. Develop a design or a process or investigate a hypothesis following industry and professional engineering standards.
2. Critically reflect on a specialist body of knowledge related to their thesis topic.
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 lay domains.

Teaching Strategies

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

PRIVATE STUDY

As a rough guide only, an average student would be expected to spend approximately 10 hours per week on work related to this course.

More guidance is needed initially from the supervisor when the topic is being defined to establish the objectives and methodology of the thesis.

SUPERVISION

- There are no specific hours assigned to this course, except for the scheduled Lunchtime Workshops (see below).
- Meetings between the supervisor(s) and the student may take place periodically or by private arrangement.
- Should supervisors be on study leave or unavailable for a considerable period of the session, alternative arrangements need to be established and made known to both the student and course coordinator.

CONSULTATION

The course coordinator will be available by prior appointment to liaise with enrolled students as needed.

IT IS ESSENTIAL THAT YOU REGULARLY CHECK YOUR OFFICIAL UNSW EMAIL FOR UPDATES, REMINDERS, ETC.

Additional Course Information

This course is in three parts. Masters Project A is undertaken in the first term of enrolment. Masters Project A is a prerequisite for Masters Project B, which in turn is a prerequisite for Masters Project C.

By default, students must ordinarily take Masters Project A, B, and C in three consecutive terms. With School permission, students may request to take Masters Project A in one term then Masters Project B + C concurrently in the following term. This option is strictly limited only to students who can demonstrate the ability to progress. Further details are provided in the ASSESSMENT section below.

Students may enrol in up to and including 20 UoC while undertaking Masters Project without being considered as overloading. Students who enrol in 22 UoC or more while undertaking Masters Project are considered to be overloading and will require permission to do so.

Where can I find more information?

Find more information about the structure of the Masters Project on the School website [here](#).

Assessment

Assessment Tasks

Assessment task	Weight	Due Date	Student Learning Outcomes Assessed
Master project and report	100%	Not Applicable	1, 4, 5

Assessment Details

Assessment 1: Master project and report

Details:

Masters Project C: Project C complete any outstanding lab/field/modelling research and analyses; complete and submit the keystone deliverable Masters Project; and present findings to staff and peers at a research seminar/video presentation.

ASSESSMENT TASKS:

1. **Abstract** - 5% of the final mark - Friday 4pm WEEK 7
2. **Research Seminar/Video Presentation** - 10% of the final mark - Friday WEEK 10
3. **Thesis submission** - 70% of the final mark - Friday 4pm WEEK 11

Additional details:

FAIL/LATE PENALTIES AND PROCEDURES

Fail in Masters Project C – Students have three options.

1. re-enrol for Masters Project A, B & C again, new project and supervisor
2. re-enrol for Masters Project C again, same project - needs consent of an appropriate supervisor & student
3. Student does further work, re-submits thesis after a max of 6 weeks. Course mark capped at 50%. If still not satisfactory, then needs to re-enrol. (This option is only available if the original mark was ≥ 40 , OR if the student is in their last term before graduation, regardless of the original mark).

Late Procedure – In all cases, applications for late submission can be applied for BEFORE the due date. This is at the discretion of the Thesis Coordinator, but should only be granted in exceptional circumstances. As per normal, students can also apply through myUNSW for special consideration.

- For all other assignments beside thesis – zero (0) mark is awarded
- For thesis – 5 marks off the thesis for every day late. Penalty applies until the marks for the course decrease to 50, and further lateness does not result in failure of the course, but might be a failure of the thesis (weekends count as days).

- Any thesis not turned in within 6 weeks after the deadline will be finalised at zero (0) marks.

Attendance Requirements

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

Course Schedule

[View class timetable](#)

Timetable

Date	Type	Content
Week 1: 15 February - 19 February	Project	Complete remaining thesis research with Supervisor(s) guidance. Analyse data.
Week 2: 22 February - 26 February	Project	Complete remaining thesis research with Supervisor(s) guidance. Analyse data.
Week 3: 1 March - 5 March	Project	Complete remaining thesis research with Supervisor(s) guidance. Analyse data.
Week 4: 8 March - 12 March	Project	Complete remaining thesis research with Supervisor(s) guidance. Analyse data. Work on thesis with Supervisor(s) guidance.
Week 5: 15 March - 19 March	Project	Work on thesis with Supervisor(s) guidance.
Week 6: 22 March - 26 March	Project	Work on thesis with Supervisor(s) guidance. Prepare draft of seminar abstract
Week 7: 29 March - 2 April	Project	Work on thesis with Supervisor(s) guidance. Receive supervisor feedback on Seminar Abstract
	Assessment	Seminar Abstract Due – submit by 4.00 pm on Friday.
Week 8: 5 April - 9 April	Project	Work on thesis with Supervisor(s) guidance. Prepare seminar with Supervisor(s) guidance.
Week 9: 12 April - 16 April	Project	Work on thesis with Supervisor(s) guidance. Prepare seminar with Supervisor(s) guidance.
Week 10: 19 April - 23 April	Project	Work on thesis with Supervisor(s) guidance. Prepare seminar with Supervisor(s) guidance.
	Assessment	Presentations Due (Course coordinator to provide details)
	Assessment	Thesis due – Submit on-line by 4.00 pm on Friday WEEK 11

Resources

Prescribed Resources

This is project-specific, and will be advised by your Supervisor(s).

Recommended Resources

Honours Thesis Writing for Engineering Students: <https://student.unsw.edu.au/honours-thesis-writingengineering-and-science-students>

Online iWrite thesis writing tutorial: <http://iwrite.sydney.edu.au/tutorials/start/starthere.htm>

- Topic material as direct by the supervisor.
- Materials provided by course coordinator.

Course Evaluation and Development

Feedback from students is welcomed and encouraged, and is used to continuously improve the course outcomes and experiences for students.

Laboratory Workshop Information

To be discussed with Supervisor(s).

Submission of Assessment Tasks

Please refer to the Moodle page of the course for further guidance on assessment submission.

Academic Honesty and Plagiarism

Beware! An assignment that includes plagiarised material will receive a 0% Fail, and students who plagiarise may fail the course. Students who plagiarise are also liable to disciplinary action, including exclusion from enrolment.

Plagiarism is the use of another person's work or ideas as if they were your own. When it is necessary or desirable to use other people's material you should adequately acknowledge whose words or ideas they are and where you found them (giving the complete reference details, including page number(s)). The Learning Centre provides further information on what constitutes Plagiarism at:

<https://student.unsw.edu.au/plagiarism>

Academic Information

[Key UNSW Dates](#) - eg. Census Date, exam dates, last day to drop a course without academic/financial liability etc.

Final Examinations:

Final exams in Term 1 will be held online between 30th April - 13th May inclusive. You are required to be available on these dates. Please do not to make any personal or travel arrangements during this period.

Supplementary Examinations:

Supplementary Examinations for Term 1 2021 will be held on 24th - 28th May inclusive should you be required to sit one. You are required to be available on these dates. Please do not to make any personal or travel arrangements during this period.

ACADEMIC ADVICE

For information about:

- Notes on assessments and plagiarism;
- Special Considerations: student.unsw.edu.au/special-consideration;
- General and Program-specific questions: [The Nucleus: Student Hub](#)
- Year Managers and Grievance Officer of Teaching and Learning Committee, and
- CEVSOC/SURVSOC/CEPCA

Refer to Academic Advice on the School website available at:

<https://www.engineering.unsw.edu.au/civil-engineering/student-resources/policies-procedures-and-forms/academic-advice>

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 lands on which UNSW Kensington campus is located.