



CVEN9452

Masters Project B

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 thesis 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 second 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 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 Research Thesis without being considered as overloading. Students who enrol in 22 UoC or more while undertaking Thesis 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%	09/04/2021 04:00 PM	1, 4, 5

Assessment Details

Assessment 1: Master project and report

Details:B1 Submission: Progress Report (5% of the final thesis mark)

B1 Submission will take the form of an improved and extended A2 submission, including a detailed Thesis Outline (chapter and sub-headings), Research Methodology and preliminary Results and Analyses.

Note: for students who have been granted permission to undertake Masters Project B & C concurrently, Submission B1 is due Friday WEEK 3.

Submission notes: To be provided directly to supervisor by the due date.

Additional details:

FAIL/LATE PENALTIES AND PROCEDURES

Fail in Thesis B - must re-enrol in Project B again

Fail in Thesis B & C (when taken simultaneously) – Students must re-enrol in Project B again, and cannot concurrently enrol in C. They can then take Project C when Project B has been satisfactorily completed.

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.

B1 submission – zero (0) mark is awarded

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	Receive review of Component A2 from supervisor(s); Undertake thesis research with Supervisor(s) guidance;
Week 2: 22 February - 26 February	Project	Undertake thesis research with Supervisor(s) guidance
Week 3: 1 March - 5 March	Assessment	Thesis B+C students: Component B1 Due – submit to your supervisor by 4.00 pm on Friday
	Workshop	Thesis writing Workshop Date/time: Wed 03/03/2021 at 12 – 1 pm. Venue: LIVE STREAM (see Moodle for Details)
Week 4: 8 March - 12 March	Project	Undertake thesis research with Supervisor(s) guidance. Work on Progress Report. Thesis B+C students: Receive review of Component B1 from supervisor(s)
Week 5: 15 March - 19 March	Project	Undertake thesis research with Supervisor(s) guidance. Work on Progress Report.
Week 6: 22 March - 26 March	Project	Undertake thesis research with Supervisor(s) guidance. Work on Progress Report.
Week 7: 29 March - 2 April	Project	Undertake thesis research with Supervisor(s) guidance. Work on Progress Report.
Week 8: 5 April - 9 April	Project	Finalise and submit Progress Report to supervisor(s) –including a detailed Thesis Outline (chapter and sub-headings), Research Methodology and (Preliminary) Results and Analyses.
	Assessment	Component B1 Due – submit to your supervisor by 4.00 pm on Friday
Week 9: 12 April - 16 April	Project	Receive a review of Component B1 from supervisor(s)

		<p>Revise thesis. Undertake thesis research with Supervisor(s) guidance.</p> <p>Analyse data.</p>
Week 10: 19 April - 23 April	Project	<p>Revise thesis. Undertake thesis research with Supervisor(s) guidance.</p> <p>Analyse data.</p> <p>Complete research component (results)</p>

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 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>

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Acknowledgement of Country

We acknowledge the Bedegal people who are the traditional custodians of the lands on which UNSW Kensington campus is located.