

HANDBOOK DESCRIPTION

The thesis may describe directed laboratory, investigatory, design, field or research work on an approved subject and will be completed under the guidance and supervision of a member of the School's academic staff.

Online Handbook description is available at MyUNSW:

www.handbook.unsw.edu.au/undergraduate/courses/2022/CVEN4951.html

www.handbook.unsw.edu.au/undergraduate/courses/2022/CVEN4952.html

www.handbook.unsw.edu.au/undergraduate/courses/2022/CVEN4953.html

PROCEDURE FOR SELECTION AND CONFIRMATION OF A RESEARCH THESIS TOPIC

Your priority is to find a Supervisor and agree on a topic BEFORE ENROLLING in Research Thesis A.

Browse online ('Search Projects')

They take the form of a written report, which presents the findings of that research.

WHY WRITE AN HONOURS RESEARCH THESIS?

Satisfy your intellectual curiosity

This is the most compelling reason to write a research thesis. You have studied courses during your degree that perhaps really piqued your interest. Now's your chance to follow your passions, explore further, and contribute some original ideas and research in your field.

Develop transferable research skills

Whether you choose to pursue further research (e.g. complete a Ph.D) or not, the process of developing and crafting a feasible research project will polish skills that will serve you well in almost any future job.

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.

EXPECTED LEARNING OUTCOMES

Expected learning outcomes, their association with the teaching strategies and with the suggested approaches to learning. Include an alignment of the assessment tasks to the course and program learning outcomes. Student-centred and self-directed learning (expectations of the students, where relevant)

This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.

SUMMARY OF ALL RESEARCH THESIS MARKED ASSESSMENTS

Research Thesis A:

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|-----------------|---------|------------------------------------|
| 1. Component A1 | Week 7 | satisfactory/unsatisfactory |
| 2. Component A2 | Week 10 | 10 % of Final Mark |

Research Thesis B:

- | | | |
|-----------------|----------------------|--------------------------|
| 1. Component B1 | Week 8 (B+C: Week 3) | 5 % of Final Mark |
|-----------------|----------------------|--------------------------|

Research Thesis C:

- | | | |
|--|---------|---|
| 1. Abstract | Week 7 | 5 % of Final Mark |
| 2. Research Seminar/Video Presentation | Week 10 | 10 % of Final Mark |
| 3. Thesis Submission | Week 11 | 70 % of Final Mark (incl. 10 % Supervisor) |

Further details of the requirements for the Abstract and Presentation will be advised by the Course Coordinator during the term.

The Research Thesis is to be submitted electronically as a single pdf by 4.00pm on Friday of the submission week via the School's student intranet at: <http://intranet.civeng.unsw.edu.au/research-thesis-upload-page>

Further document requirements and upload instructions are available at this site. Students are encouraged to print for themselves a hard copy of their work, and supervisors may also request that they be provide a hard copy for their records.

Fail in research Thesis B & C (when taken simultaneously) – Students must re-enrol in Research Thesis B again, and cannot concurrently enrol in C. They can then take Research Thesis C when Thesis 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.

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

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| RELEVANT RESOURCES iTJ .9 (i0.337p53 12.3du3he)6.7131 |
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HONOURS RESEARCH THESIS A COURSE PROGRAM

| Week | Milestones | Suggested Activities | Assessment/Workshops |
|-------------|---|---|---|
| 1 | Confirm Thesis Topic and Enrolment | Attend Lunchtime Orientation Session | Course Orientation Session + Q&A SEE MOODLE FOR DETAILS |
| 2 | Arrange regular supervision meetings with Supervisor(s) | Attend Lunchtime Workshop – ‘How to Write a Literature Review’ | Literature Review & Problem Statement Workshop SEE MOODLE FOR DETAILS |

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| 9 | | <p>Expand on literature review and prepare draft project skeleton</p> <p>Consult on your proposed Research Methodology with supervisor</p> | |
| 10 | <p>Submit Component A2 – more detailed, revised and improved Introduction (Statement of Problem) & Literature Review.</p> <p>If seeking to apply for permission to enrol concurrently in Research Thesis B + C next Term, refer to the Course Profile for further information on the additional content for A2 that is required, and the online application process.</p> | <p>Agree on your proposed Research Methodology with supervisor</p> | <p><i>Component A2 Due – submit to your supervisor by 4pm Friday</i></p> |

HONOURS RESEARCH THESIS B COURSE PROGRAM

| Week | Milestones | Suggested Activities | Assessment/Workshops |
|-------------|---|--|--|
| 1 | Review and discuss of Component A2 feedback from supervisor(s) | Undertake thesis research with Supervisor(s) guidance | |
| 2 | | Undertake thesis research with Supervisor(s) guidance | |
| 3 | Thesis B+C students only: discuss with Supervisor(s) & finalise submission B1 | Attend Lunchtime Workshop – ‘Thesis Writing Workshop’ | Thesis Writing Workshop SEE MOODLE FOR DETAILS |

Appendix A: Engineers Australia (EA) Competencies
Stage 1 Competencies for Professional Engineers

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| | Program Intended Learning Outcomes |
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PEI: