

# MECH 4005 ADVANCED ENGINEERING THESIS 1: PRELIMINARY INVESTIGATIONS

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**Credit Points** 10

**Legacy Code** 300969

**Coordinator** Pan Hu ([https://directory.westernsydney.edu.au/search/name/Pan Hu/](https://directory.westernsydney.edu.au/search/name/Pan%20Hu/))

**Description** Advanced Engineering Thesis 1 - Preliminary Investigations subject consists of a research project designed and implemented under the direction of an academic supervisor and research mentor. This subject is the culmination of studies for students who have completed their first three years of an undergraduate degree and provides substantial training in Preliminary Investigations. Under staff supervision, students are allocated a particular topic for their research, design their own programme of research, and perform the research. The emphasis of this subject is on the application of research knowledge gained in other subjects to the practical conduct of the individual research project. This subject provides final year Advanced engineering students with the opportunity to undertake research on a specialist topic within their Key Program of undergraduate study.

**School** Eng, Design & Built Env

**Discipline** Mechanical Engineering

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 4 subject

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

| Type              | Length       | Percent | Threshold | Individual/<br>Group Task | Mandatory |
|-------------------|--------------|---------|-----------|---------------------------|-----------|
| Research Proposal | 15-20 pages. | 35      | N         | Individual                |           |
| Progress Report   | 30-40 pages. | 65      | Y         | Individual                |           |