

# ENGR 4001 ADVANCED ENGINEERING TOPIC 2

**Credit Points** 10

**Legacy Code** 300667

**Coordinator** Ali Hellany (<https://directory.westernsydney.edu.au/search/name/Ali Hellany/>)

**Description** This subject provides students with the opportunity to tackle engineering problems that are more challenging than those in Advanced Engineering Topic 1. They will study advanced topics in selected areas under the supervision of academics. The advanced topics will prepare students for further study and research.

**School** Eng, Design & Built Env

**Discipline** Other Engineering And Related Technologies

**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

**Pre-requisite(s)** ENGR 3001

## Restrictions

Students must be enrolled in program 3666 Bachelor of Engineering (Advanced) or 3690 Bachelor of Engineering Advanced (Honours) and must have a program GPA equal to or greater than 5.5.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Demonstrate an ability to apply the knowledge learned in the first 3 years of study to a specific area of interest;
2. Demonstrate an ability to tackle complex, challenging problems in a particular area with limited supervision;
3. Demonstrate an ability to communicate effectively;
4. Demonstrate technical competence in a particular area in engineering.

## Subject Content

Self-motivated study in specific topics

## 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/ Group Task
Report	1,000 words	35	N	Individual
Report	3,000 words	65	N	Individual

## Prescribed Texts

- No specific texts are required. Supervisors will recommend references based on the resources currently available from the library.

## Teaching Periods

### Autumn (2024)

#### Penrith (Kingswood)

##### On-site

**Subject Contact** Ali Hellany (<https://directory.westernsydney.edu.au/search/name/Ali Hellany/>)

[View timetable](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR4001_24-AUT_KW_1#subjects) ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=ENGR4001\\_24-AUT\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR4001_24-AUT_KW_1#subjects))

### Spring (2024)

#### Penrith (Kingswood)

##### On-site

**Subject Contact** Ali Hellany (<https://directory.westernsydney.edu.au/search/name/Ali Hellany/>)

[View timetable](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR4001_24-SPR_KW_1#subjects) ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=ENGR4001\\_24-SPR\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR4001_24-SPR_KW_1#subjects))