

# CIVL 4009 TIMBER STRUCTURES (UG)

**Credit Points** 10

**Legacy Code** 300739

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

**Description** Students learn about the engineering properties of timber and assess it as a construction material. Design methods based on structural mechanics are covered including the design of members and connections.

**School** Eng, Design & Built Env

**Discipline** Structural 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

**Pre-requisite(s)** CIVL 2007

**Co-requisite(s)** CIVL 3014

**Equivalent Subjects** LGYB 1031 - Timber Structures (UG)

## Learning Outcomes

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

1. Identify the properties of timber that influence its strength as a construction material.
2. Apply limit state design concepts for timber elements and whole structures
3. Determine design loads and analyse timber structures to evaluate internal design action effects
4. Design timber elements based on evaluated design action effects

## Subject Content

Characteristics, grading and use of timber for structural design

Design of tension members

Design of Compression members

Design of members in flexure

Design of members under combined action

Design of connections

## 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	Mandatory
Professional Task	Submission of tutorial solutions (every fortnight from week 3)	10	N	Individual	N

Intra-session Exam	2 hours	15	N	Individual	N
Report	Approximately 40 pages	25	N	Group	N
Final Exam	2 hours	50	N	Individual	N

Teaching Periods

## Sydney City Campus - Term 2 (2025)

### Sydney City

#### On-site

**Subject Contact** Eileen An ([https://directory.westernsydney.edu.au/search/name/Eileen An/](https://directory.westernsydney.edu.au/search/name/Eileen%20An/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=CIVL4009\\_25-SC2\\_SC\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=CIVL4009_25-SC2_SC_1#subjects))