

# BLDG 1009 ENVIRONMENTAL BUILDING DESIGN

**Credit Points** 10

**Legacy Code** 301062

**Coordinator** Laura Melo C E De Almeida (<https://directory.westernsydney.edu.au/search/name/Laura Melo C E De Almeida/>)

**Description** This subject explores the important parameters that are used to facilitate sustainable change in the built environment. Building design is a tool to minimise the use of scarce resources and reduce the impact on the natural Australian landscape. Improving the standard of liveability in urban and peri-urban communities is addressed through the development of holistic building design solutions.

**School** Eng, Design & Built Env

**Discipline** Construction 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 1 subject

**Equivalent Subjects** BLDG 1010 - Environmental Building Design (WSTC)

## Learning Outcomes

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

1. Recognise the importance of energy and water efficiency to the sustainability of our built environment
2. Review the available strategies that can be used to improve the life cycle performance of buildings
3. Identify the major common weaknesses in current residential building design
4. Prioritise environmental parameters for a specific building project
5. Integrate their knowledge of environmental design in the context of a medium density housing development

## Subject Content

Sustainable building design

Environmentally friendly building materials and systems

Green rating schemes for buildings

Energy, water and waste management in buildings

## 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
Quiz	1 hour	20	N	Individual
Report	Technical report with an overall of 1,000 words	30	N	Individual

Case Study	3D and 2D CAD drawings with EBD principles perfectly represented and identified	30	N	Group
Participation	during tutorials	10	N	Individual
Presentation	5 min individual reflection presentation on the case study	10	N	Individual

Teaching Periods

## Autumn (2024)

### Parramatta - Victoria Rd

**On-site**

**Subject Contact** Laura Melo C E De Almeida (<https://directory.westernsydney.edu.au/search/name/Laura Melo C E De Almeida/>)

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=BLDG1009\\_24-AUT\\_PS\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BLDG1009_24-AUT_PS_1#subjects))

## Spring (2024)

### Penrith (Kingswood)

**On-site**

**Subject Contact** Laura Melo C E De Almeida (<https://directory.westernsydney.edu.au/search/name/Laura Melo C E De Almeida/>)

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=BLDG1009\\_24-SPR\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BLDG1009_24-SPR_KW_1#subjects))

### Parramatta - Victoria Rd

**On-site**

**Subject Contact** Laura Melo C E De Almeida (<https://directory.westernsydney.edu.au/search/name/Laura Melo C E De Almeida/>)

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