

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/](https://directory.westernsydney.edu.au/search/name/Laura%20Melo%20C%20E%20De%20Almeida/))

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

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

Teaching Periods

Autumn (2025)

Parramatta - Victoria Rd

On-site

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View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG1009_25-AUT_PS_1#subjects)

Spring (2025)

Penrith (Kingswood)

Hybrid

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Parramatta City - Macquarie St

Hybrid

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Parramatta - Victoria Rd

Hybrid

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