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 unit 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 HECS Band contribution amount 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.

ltem	Length	Percent	Threshold	Individual/ Group Task
Green Design	1 hour	20	Ν	Individual
Quiz				

Report on one aspect of sustainable design in a current building project	1000 words	30	Ν	Individual
Medium density housing design (3D CAD model and 2D drawings)	3D CAD model and 2D drawings	40	Ν	Individual
Weekly Activities	during tutorials	10	Ν	Group

Teaching Periods

Spring Penrith (Kingswood)

Day

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_22-SPR_KW_D#subjects)

Parramatta - Victoria Rd Day

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_22-SPR_PS_D#subjects)