

BLDG 1015 RESIDENTIAL BUILDING

Credit Points 10

Legacy Code 301226

Coordinator Robert Osei-Kyei (<https://directory.westernsydney.edu.au/search/name/Robert Osei-Kyei/>)

Description This subject provides students with an overview of regulations and construction techniques with an emphasis on low-rise residential buildings in the Australian context. It covers general process, building regulations, environmental issues, surveying techniques, structural elements (footings, framing and bracing), envelope, services, fit-out and finishes.

School Eng, Design & Built Env

Discipline Building Science and Technology

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 1002 Building 1

BLDG 1003 Building 1 (WSTC)

BLDG 1001 Building 1

BLDG 1018 Residential Building (WSTC)

Restrictions

Students in the following programs cannot enrol in this unit: 2786 Bachelor of Business (current program) 2788 Bachelor of Business / Bachelor of Laws (current program) 2739 Bachelor of Business and Commerce (continuing program) 2740 Bachelor of Business and Commerce/Bachelor of Laws (continuing program) 2753 Bachelor of Business and Commerce (continuing program) 2754 Bachelor of Business and Commerce (Advanced Business Leadership) (continuing program) 2787 Bachelor of Business (Advanced Business Leadership) (current program)

Learning Outcomes

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

1. Analyse and describe construction techniques required for low rise residential buildings including design of slab-on-ground and timber framing
2. Select materials and appropriate construction techniques based on regulatory, safety and environmental analyses and communicate these via technical documentation
3. Interpret building regulations pertinent to low rise residential buildings
4. Apply simple land and building surveying techniques
5. Analyse basic building services requirements for low rise residential buildings
6. Recognise environmental and social connections with the built forms
7. Identify typical low rise residential building defects and propose acceptable solutions
8. Identify the problems associated with building low rise residential in hazardous locations

Subject Content

- Environmental impact of building
- Housing styles
- Design, documentation, tendering
- Regulations
- Surveying
- Civil works and soil mechanics
- Footing systems
- Concrete slabs
- Timber framing
- Cladding
- Services
- Fit-out
- Finishes
- Building in hazardous locations
- Alternative construction
- Defects and faults

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
Applied Project	1000 words	25	N	Individual	N
Applied Project	1000 words	35	N	Individual	Y
Professional Task	2000 words	40	N	Individual	Y

Teaching Periods

Autumn (2025)

Penrith (Kingswood)

On-site

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[View timetable](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG1015_25-AUT_KW_1#subjects) (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG1015_25-AUT_KW_1#subjects)

Parramatta - Victoria Rd

On-site

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Spring (2025)

Parramatta City - Macquarie St

Hybrid

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[View timetable](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG1015_25-SPR_PC_3#subjects) (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG1015_25-SPR_PC_3#subjects)