

BLDG 1018 RESIDENTIAL BUILDING (WSTC)

Credit Points 10

Legacy Code 700304

Coordinator Ramin Ebadi ([https://directory.westernsydney.edu.au/search/name/Ramin Ebadi/](https://directory.westernsydney.edu.au/search/name/Ramin%20Ebadi/))

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 1015 - Residential Building

Restrictions

Students must be enrolled at The College to enrol in this subject. Students enrolled in Extended Diploma programs must have passed 30 credit points of preparatory subjects in order to enrol in this subject. Students enrolled in Integrated programs need to have passed or be enrolled in the preparatory subjects in their program in order to enrol in this subject.

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
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		25	N	Individual	N
Applied Project		25	N	Group	N
Final Exam		50	N	Individual	N

Teaching Periods

Term 1 (2025)

Penrith (Kingswood)

On-site

Subject Contact Ramin Ebadi ([https://directory.westernsydney.edu.au/search/name/Ramin Ebadi/](https://directory.westernsydney.edu.au/search/name/Ramin%20Ebadi/))

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG1018_25-T1_KW_1#subjects)