

BLDG 4015 BUILDING DESIGN PROJECT 2 (HONOURS)

Credit Points 20

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

Description In this subject, students will continue to develop the design solution they created in Building Design Project 1 (Honours) into a fully resolved CAD model suitable for costing, scheduling and contracting. Students apply technical and critical thinking skills to address the project constraints, and present project documentation (site plans, floor plans, elevations, sections, details and specifications) of a quality suitable to apply for a Construction Certificate. Complex constraints relating to buildability and efficient project delivery will be resolved. Strict budgetary constraints will be imposed and students will be expected to demonstrate a capacity to use lateral thinking and generate creative solutions in response to problematic situations which arise during project delivery but which were unknown at project commencement. Knowledge gained in this subject will benefit students aspiring to roles in the integrated building design industry and the delivery of building design solutions.

School Eng, Design & Built Env

Discipline Building

Student Contribution Band HECS Band 2 20cp

Check your HECS Band contribution amount via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 4 subject

Co-requisite(s) BLDG 4014 - Building Design Project 1 (Honours)
OR
CIVL 4018 - Building Design Project 1 (Honours)

Equivalent Subjects CIVL 4019

Incompatible Subjects BLDG4002 - Building Design Project 2 (non-honours stream)

Restrictions

Students must be enrolled in Bachelor of Building Design Management or Diploma in Building Design Management/Bachelor of Building Design Management. Students must have successfully completed 220 credit points and must have a GPA of 5 or higher.

Assumed Knowledge

Students should be familiar with the content from the first three years of the Building Design Management degree, including expertise in CAD, iterative design process and construction technology

Learning Outcomes

1. Recommend the appropriate construction systems for the building project.
2. Specify materials, finishes and performance standards expected in the completed building.
3. Resolve the details of footings/floor/wall and floor/roof junctions and illustrate these with detail drawings to a professional standard.
4. Construct a fully detailed 3D CAD model with sufficient information for accurate pricing and technical assessment.

5. Present design management choices in 2D views drawn from a 3D CAD model of professional standard.
6. Resolve budgetary conflicts, construction safety issues and environmental impacts of construction using innovative design management solutions.
7. Reflect on feedback relating to a building design arguing persuasively for a design solution..

Subject Content

1. Construction Certificate approval
2. Complex and high-rise development Complex services integration and clash detection
3. Proactive response to stakeholder feedback
4. Conflict resolution

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
Report	2000 words	20	N	Individual
Applied Project	3D CAD model and large scale 2D drawings	30	N	Individual
Applied Project	3D CAD model and 2D drawings	40	N	Individual
Reflection	1000 words	10	N	Individual

Teaching Periods

Spring (2022)

Penrith (Kingswood)

Day

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

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BLDG4015_22-SPR_KW_D#subjects)

Parramatta - Victoria Rd

Day

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

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=BLDG4015_22-SPR_PS_D#subjects)

Spring (2023)

Parramatta - Victoria Rd

On-site

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

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=BLDG4015_23-SPR_PS_1#subjects)