

CIVL 4019 BUILDING DESIGN PROJECT 2 (HONOURS)

Credit Points 20

Legacy Code 301102

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Description In this subject, students who have a record of superior performance in the program 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. Construction Certificate documentation of professional standard will be generated. Both the complexity level and the number of design constraints will distinguish the project undertaken for this subject from the non-honours stream subject. Diverse stakeholder input on the projects impact will be gathered and assessed. 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.

School Eng, Design & Built Env

Discipline Construction Engineering

Student Contribution Band HECS Band 2 20cp

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

Level Undergraduate Level 4 subject

Pre-requisite(s) CIVL 4018

Incompatible Subjects BLDG 4002 Building Design Project 2

Restrictions Students must be enrolled in 3727 Bachelor of Building Design Management.

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

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

1. Select 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. Illustrate and present their 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 and argue persuasively for a design solution that you have generated.

Subject Content

Construction Certificate approval
Complex and high-rise development
Complex services integration and clash detection
Proactive response to stakeholder feedback
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
Specification of a critical trade section for the project	2000 words	20	N	Individual
Detailed drawings of critical construction junctions	3D CAD model and large scale 2D drawings	30	N	Individual
Fully developed building design suitable for Construction Certificate Application	3D CAD model and 2D drawings	40	N	Individual
Reflective Report	1000 words	10	N	Individual