

CIVL 4018 BUILDING DESIGN PROJECT 1 (HONOURS)

Credit Points 20

Legacy Code 301101

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Description In this subject, students who have a record of superior performance in the Building Design Management program, will source a suitable design project at their own initiative, to complete as a capstone work which illustrates the skills they have developed throughout their study program. The project will contain a high level of complexity exceeding that of previous building designs produced in the program. 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 project's impact will be gathered and assessed. The design solution generated will show mastery of complex design problems which integrate technical knowledge with economic and social responsibility. Superior skill in resolving design conflicts will be demonstrated.

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) BLDG 3001

Incompatible Subjects BLDG 4001 Building Design Project 1

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. Generate a design brief for a building project with sufficient detail to make a preliminary judgement on project feasibility.
2. Analyse the site conditions and construct a performance specification for a building design to a professional standard.
3. Make the case for particular design decisions which have the effect of limiting some design choices.
4. Reflect on feedback relating to the proposed sketch design and make responsive changes to demonstrate resolution of stakeholder conflicts.
5. Illustrate the building design through a fully rendered 3D CAD model which is of professional standard and can be understood by members of the general public.
6. Argue persuasively for a design solution that you have generated.

Subject Content

Planning approval requirements

Complex and high-rise building projects
Buildings incorporating multiple usages
Design under constrained conditions
Multiple stakeholder interest groups
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	1,500 words	20	N	Individual
Applied Project	3D CAD model and 500 word explanation	30	N	Individual
Applied Project	3D CAD model and 2D drawings	40	N	Individual
Reflection	1,000 words	10	N	Individual