

ARCH 3005 ARCHITECTURE STUDIO - THE INFRASTRUCTURAL

Credit Points 20

Legacy Code 301202

Coordinator Shuang Wu (<https://directory.westernsydney.edu.au/search/name/Shuang Wu/>)

Description This subject situates learning in the context of the major urban public projects that sit at the intersection of architecture, infrastructure, and urban design and which highlight the pressure of population growth, climate change, or other significant demographic, economic, political, or ecological transformations. Work integrated learning is a key feature of the Rethinking Infrastructure studio which involve relevant members of the professional community to help lead studio investigations and/or embed students in professional practices. Projects include architectural responses to complex urban and infrastructural projects at a large scale such as transit oriented development, high density housing, landscape urbanism. Students develop professional practice skills on these real world projects and incorporate sustainable strategies of design as well as learning skills in advocacy, entrepreneurship, and professional readiness.

School Eng, Design & Built Env

Discipline Architecture

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 3 subject

Pre-requisite(s) ARCH 3004 OR
ARCH 3003

Restrictions

Students must be enrolled in 3753 Bachelor of Architectural Design. Students not enrolled in 3753 who wish to enrol into this subject should have a 5.0 minimum GPA and are required to discuss with the Academic program Advisor.

Learning Outcomes

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

1. Analyse and evaluate cities and urban form, morphology, systems, ecologies, and interactivity between urban conditions, to inform design solutions that address scenarios of urban complexity and civic or infrastructural scale.
2. Apply an advanced level of theoretical and technical awareness in architectural and spatial design with an ability to explore and propose a variety of sensitive design solutions through the language of architectural representation in section, plan and models using both analogue and digital techniques.
3. Demonstrate an awareness of the broader cultural context in which architecture is practised, through the application of local and regional planning considerations and an understanding of the history and practice of urban design.

4. Understand and apply strategies for climatically responsive, equitable, humane, resilient, and robust design solutions for urban environments.
5. Generate technical and analytical drawings and reports using graphic and modelling skills to convey a design proposal.
6. Develop an awareness of the architect's professional, regulatory, and administrative roles, the business and entrepreneurial aspects of practice, and alternate roles of engagement.

Subject Content

1. Investigation of major public infrastructural projects and programs that influence urban and civic outcomes
2. Introduction to the professional architectural practice
3. Analysis of context and precedent to inform design decisions
4. Creative organisation of architectural programs and material assemblies in large-scale buildings or large-scale complex urban environments/scenarios
5. Graphic visualisation and literacy
6. The application of design technology to generate architectural solutions

Special Requirements

Legislative pre-requisites

Construction Site Induction Safety "White Card" – must be obtained in Year 1 of the program.

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
Case Study Drawings and Models	10		N	Individual	N
Quiz	1 hour (per 5 Quiz)		N	Individual	N
Applied Project	Drawings and Models and 500 words	30	N	Individual	N
Applied Project	Drawings and Models and 3 minutes presentation (per student)	45	N	Individual	N
Portfolio	500 words, 10 visual compendium		N	Individual	N

Teaching Periods

Spring (2025)

Parramatta City - Macquarie St

Hybrid

Subject Contact Shuang Wu (<https://directory.westernsydney.edu.au/search/name/Shuang Wu/>)

View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ARCH3005_25-SPR_PC_3#subjects)