



UNSW
SYDNEY

Australia's
Global
University

Built Environment

ARCH1331
Architectural Fabrication



Course Outline – Term 3, 2020

Disclaimer

Information within this document is subject to change. The full and most accurate course outline will be available in Moodle closer to the start of the term in which the course is offered.

1. COURSE STAFF

Course Contact	John Gamble
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2. COURSE DETAILS

Credit Points	6 units of credit (uoc)
Workload	Approx. 150 hours including class contact hours, weekly individual and group online learning activities, readings, class preparation, and assessment activities.
Teaching Times and Location	Find details in timetable http://www.timetable.unsw.edu.au

Description

The course is designed to expand the knowledge and understanding of construction material properties and their integration with architectural forms. At first, the course will provide students with new tools and methods to understand the technical narrative behind some architectural case studies. Second, the course will support students on how to explore and develop the relationship between design and tectonics in their own projects. The course is a combination of technical analysis and workshop-based experimentation directed to understanding the hierarchy of building components and the logic behind architectural construction. Over the course, modern conceptions of architectural tectonics are presented, and physical precedents are analysed. Drawings and models at multiple scales will assist the learning experiences in this course.

Aims

This course will enable students:

1. To expand and develop their understanding of the capacity of material construction to contribute to the making of good places for people to live.
2. To more effectively communicate their construction ideas in the context of architectural design.

To support these aims, just two structural/construction types and three types of human situations will be investigated. While limited in this way, the understanding that is gained is significant to architectural design more generally.

Course Learning Outcomes (CLOs)

At the successful completion of this course, you will be able to:

1. Identify, investigate and appraise to an intermediate level material and construction options informed by disciplinary knowledge and understanding of their physical characteristics appropriate for architectural design.
2. Integrate to an intermediate level material, construction and structural implications, including their environmental performance, with architectural design.
3. Apply an intermediate level of skill to the communication (using drawings, models, specifications and schedules) of material, construction and structural information consistent with architectural design.
4. Apply knowledge of the relevant legislation, quality and performance standards and codes applicable to the selected materials (including finishes, fittings and components) and construction systems.
5. Apply an understanding of materials, construction and structures in the context of a broad range of human situations likely to occur in a medium-density housing project.
6. Apply an intermediate level of skill in the interpretation of architectural precedents with an emphasis on the lessons to be drawn concerning the integration of construction and design.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Case Study Report	15%	1, 2, 3
2. Design Strategies	35%	1, 2, 3, 4, 5, 6
3. Constructing a Setting	50%	1, 2, 3, 4, 5, 6

4. COURSE IMPROVEMENT AND FEEDBACK

Feedback from students is an integral part of improving courses and teaching approaches. One of the primary mechanisms of feedback is myExperience, which we strongly urge all students to complete at the end of term. Course convenors use the feedback to make ongoing improvements to the course. This is communicated in Moodle in the myFeedback Matters page.