



UNSW
SYDNEY

Australia's
Global
University

Built Environment

ARCH1162
Construction and Structures 1



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 Carrick
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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

This course is an introduction to the foundations of architectural construction and structures. It investigates the history and significance of building materials and the perception of architectural spaces in relation to their use. The structural, environmental and design implications of material characteristics and physical properties are explored in relation to masonry, concrete, timber, steel and glass. The construction of primary buildings elements including foundations, flooring, walls, openings, fenestration, roofing, stairs and lifts and their application in domestic settings are introduced. The conventions of construction drawings, relevant quality and performance standards and communication of relevant construction information are explored through case studies.

Aims

This course will enable students to develop their comprehension and communication of foundational architectural construction principles, technologies and disciplinary knowledge through the exploration of building materials and domestic-scale architectural case-studies with an emphasis on the implications of construction in architectural design.

Course Learning Outcomes (CLOs)

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

1. Appraise material and construction options informed by disciplinary knowledge and a foundational understanding of their physical characteristics appropriate for the architectural design.
2. Integrate to a foundational level material, construction and structural implications, including environmental performance, with the architectural design.
3. Demonstrate foundational skill in the communication (using drawings, models, specifications and schedules) of material, construction and structural information consistent with the architectural design.
4. Apply foundational 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. Defend and support the selection and use of materials and foundational construction technologies consistent with the architectural design.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Construction Project	40%	1, 2, 4, 5
2. Structures Assignment	16%	1, 2
3. In class tasks	20%	1, 2, 3, 4, 5
4. Structures Examination	24%	1, 2

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.