



UNSW
SYDNEY

Australia's
Global
University

Built Environment

CODE2120
Building Data



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	Dr Lan Ding
Email	lan.ding@unsw.edu.au

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

In this course students will critique discourse, policies, case studies of computational methods and tools used for optimisation as well as decision-support in architecture and engineering disciplines. They will also gain skills in applying computational thinking and methods to building information data, formats, and modelling to address optimisation and decision-support in the architecture and engineering disciplines. Consequently students will apply proficient skills in programming to address interoperability challenges for building data management in order to create digital tools and workflows for the management of building data.

Aims

1. The aim of the course is to provide students with a foundation knowledge in interoperability to help them to identify manual and repetitive tasks that can be automated using computational methods and data.
2. The course also aims to design automated tasks as part of a workflow generating performative skins (environmental, structural, regulatory).

Course Learning Outcomes (CLOs)

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

1. Critique discourse, policies, case studies of computational methods and tools used for optimisation and decision-support in architecture and engineering disciplines.
2. Apply computational thinking and methods to building information data, formats, and modelling to address optimisation and decision-support in architecture and engineering disciplines.
3. Apply proficient skills in programming to address interoperability challenges for building data management.
4. Create digital tools and workflows for the management of building data.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Understanding interoperability	40%	1, 2, 3
2. Automating tasks in architectural workflow	40%	3, 4
3. Performative Skins	20%	2, 3, 4

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.