



UNSW
SYDNEY

Australia's
Global
University

Built Environment

CODE1234
Urban 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	TBC
Email	

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 regional and global computational urbanism and apply computational thinking and methods including a wide range of geospatial data, formats, and modelling to analyse urban sites. At the end of the course students will be able to create digital tools and workflows for the management of urban data by applying proficient skills in programming to address interoperability challenges for urban data management.

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 apply the automated tasks as part of a workflow generating permissible envelopes out of urban data.

Course Learning Outcomes (CLOs)

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

1. Critique discourse, policies, case studies of regional and global computational urbanism
2. Apply computational thinking and methods including a wide range of geospatial data, formats, and modelling to analyse urban sites.
3. Apply proficient skills in programming to address interoperability challenges for urban data management.
4. Create digital tools and workflows for the management of urban data.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Presentation – Urban Data	40%	1, 2, 3
2. Project – Automating tasks in urban design workflow	40%	3, 4
3. Presentation – Computational Urbanism	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.