



UNSW
SYDNEY

Australia's
Global
University

Built Environment

SUSD0001

Sustainable Development and the Urban Environment



Course Outline – Term 1, 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

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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

A review of innovative approaches to the planning, design and management of the 'sustainable city', with an emphasis on techniques which seek to maintain and/or improve air quality, water quality and biodiversity. Topics include principles of urban ecology and sustainable development, the ecological 'footprint' of the metropolis, water cycle management, urban design and transportation issues, urban forestry, parks systems and greenways, use of tools for assessment/evaluation. The course will be based on lectures, seminars and case studies.

Aims

1. to critically assess current concepts of Sustainable Development in the context of urban growth and change;
2. to review the principles of urban ecology as the basis for understanding the relationship between city form and natural process;
3. to survey innovative approaches to the planning, design and management of the a sustainable city
4. to provide students with the opportunity to critically reflect on their existing knowledge and skill from the perspective of current advances in Sustainable Development.

Course Learning Outcomes (CLOs)

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

1. Appraise sustainability within the context of urban development
2. Discuss urban ecology and its components that interact with built environment systems
3. Judge resilience and operationalisation of sustainability, in urban development, urban growth and urban transformation
4. Analyse the correlation between urban form and function in urban sustainable development
5. Evaluate and propose solutions to sustainability challenges within cities.

3. ASSESSMENT

| Assessment task | Weight | CLOs Assessed |
|--|--------|---------------|
| 1. Individual Project - Digital Sustainability Journal | 40% | 1, 2, 3, 4 |
| 2. Presentation of the group project | 25% | 3, 4, 5 |
| 3. Group Project report | 35% | 1, 2, 3, 4, 5 |

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.