



SDES9352 Imperatives for a Sustainable Future

Term T1, 2019

Course Information

Units of Credit: 6

Course Overview

Course Description

Imperatives for a Sustainable Future provides you with a critical understanding of the theoretical and practical implications of design as a professional activity and the impacts it can have on a local, regional and global scale. It aims to develop an understanding of how to deal with complexity and wicked problems using a design thinking framework informed by an understanding of the four pillars of sustainability. You will use foresight tools for developing sustainable strategies as well as methods for measuring and monitoring successful implementation.

Key themes will include the four pillars of sustainability, futurist philosophies, wicked problems, sticky solutions, complexity, interdependency, products, services and systems, localism, manufacturing methods, responsibility in leadership and cross disciplinary collaboration.

Course Learning Outcomes

On completion of this course, the student should be able to:

1. Identify opportunities for sustainable design within local, regional and global contexts.
2. Develop design-based strategies to address wicked problems.
3. Communicate and act on key sustainability issues.
4. Identify and build cross-disciplinary teams to collaborate on solving complex problems with sustainable outcomes.

Teaching and Learning in this Course

This course uses a variety of teaching approaches:

Blended/online

- Review - assessment tool
- Turnitin - originality checking
- Echo360 - lecture recording
- Moodle - learning management system

Lectures

Students are expected to attend all lectures and take notes as necessary. Lectures begin on the hour and students should be present and ready to avoid disruption of peers.

Tutorials

Students are expected to attend and actively participate in all tutorials. This includes preparing the necessary work and readings for each week's tasks.

Assessment

	TITLE	WEIGHTING	ASSESSMENT TYPE
Assessment Task 1	Ethics, Design and Objects	15%	Written Report
Assessment Task 2	Systems Thinking and Life Cycle Analysis	45%	Project
Assessment Task 3	Design in Context: Ecology, Economics and Politics	40%	Project

References for this Course

All resurces for this course are available via Moodle.