

Environmental **DESIGN**

architecture + landscape architecture + planning

University of Calgary / Faculty of Environmental Design

Landscape Responses to Climate Change, Energy and Water
(2-2)

EVDL 639 H

Friday 8:30am-12:50pm PF 2110

Fall 2018

Instructor: Dr. Mary-Ellen Tyler
tyler@ucalgary.ca cell: 403 804 9252
PF 2105, hours by appointment

Introduction

This course examines landscape-oriented solutions to climate change, energy, and water problems at a regional landscape scale using a research approach to understanding landscape change.

Objectives

- To acquire a basic knowledge of cross-scalar landscape change processes
- To understand the nature of regional climatic, hydrologic, and energy systems
- To acquire a basic knowledge of the potential role for spatial design in climate change adaptation

Teaching Approach

The course focuses on four areas: regional landscape change, landscape responses to climate change, regional scale spatial landscape design adaptation, and projective landscape ecologies.

A regional field trip and project-specific locations assist in identifying and illustrating specific climate change and landscape change issues in Calgary's regional landscape. Course participants work through 4 assignments to explore the inter-relationships and synthesis among landscape and landscape change processes and will present their work for in class discussion.

Topic Areas & Class Schedule

PLEASE NOTE: This Schedule is subject to change due to unexpected and uncontrollable events or through class discussion and agreement.

WEEK 1: FIRST CLASS - Friday, September 7, 2018

- Review of course outline and schedule of important dates.
- Overview of Assignments (1 -4) and content sequence
- Sept 28 Regional Field Trip Agenda + Logistics

WEEK 2: Friday, September 14 – NO CLASS – Time available for D2L Readings

WEEK 3: Friday, September 21 - NO CLASS - Portland Studios Field Trip

WEEK 4: Friday, September 28

- 8:45am-4:30pm All day Regional Field Trip (please bring lunch, note books and cameras)

WEEK 5: Friday, October 5

- **Assignment 1 Demonstration**
- Landscape Change and Climate Change at the Landscape level

WEEK 6: Friday, October 12 – ASSIGNMENT 1 DUE

- **Assignment 1 Presentations**
- Swarm Theory and Network Theory

WEEK 7: Friday, October 19 - NO CLASS – EVDS BLOCK WEEK

WEEK 8: Friday, October 26

- **Assignment 2 Demonstration**
- Landscape Connectivity and Pattern

WEEK 9: Friday, November 2 – Assignment 2 DUE

- **Assignment 2 Presentations**
- Assignment 3 Demonstration

WEEK 10: Friday, November 16 – NO CLASS – U OF C MID-TERM BREAK

WEEK 11: Friday, November 23 – Assignment 3 DUE

- **Assignment 3 Presentations**
- Design Intervention + Projective Ecologies
- Assignment 4 Demonstration

WEEK 12: Friday, November 30

- Assignment 4 Tutorials

WEEK 13: Friday, December 7 - LAST DAY OF CLASS – Assignment 4 DUE

- **Assignment 4 Presentation***

***PLEASE NOTE:**

YOU ARE REQUIRED TO ATTEND THIS FINAL PRESENTATION. PLEASE MAKE SURE THAT YOU DO NOT MAKE ANY TRAVEL OR WORK-RELATED COMMITMENTS THAT WOULD CONFLICT WITH THIS SCHEDULED PRESENTATION DATE AND TIME.

Means of Evaluation

Course Evaluation will be on the 4 term assignments. The Assignments will be completed either individually or in groups of 2 with the permission of the Instructor. Assignments completed in groups of 2 shall normally receive a common grade. However, please note that the Instructor reserves the right to evaluate students individually if Assignment work is being distributed and completed in a manner that is not equitable and grading may be adjusted to reflect individual contributions if necessary.

There will be no final examination, but the Assignment 4 presentation will be on Friday, December 7 in class time as identified in the preceding weekly schedule.

Note: The breakdown of the grading for each Assignment is included in each Assignment Brief.

Assignment 1: Regional Site Selection + Landscape Analysis	15
Assignment 2: Swarm/Network Analysis and Landscape Pattern	25
Assignment 3: Landscape Connectivity	30
Assignment 4: Design Intervention and Projective Ecology	<u>30</u>
Total	100*

Written assignment components are expected to be at the graduate level writing standard as per the University's E.2 Writing Across the Curriculum statement:

<http://www.ucalgary.ca/pubs/calendar/current/e-2.html>);

Completed course assignments must be submitted to the Instructor by email (or D2L depending upon the size of the file) on the Due Dates identified and at the end of the class presentations of each assignment. Late work will not be accepted by the Instructor unless prior agreement with the Instructor has been made for medical reasons, compassionate grounds, or academic accommodation.

Course participants are expected to attend class and must participate in scheduled field trips. If class participants are absent from class without notice for two consecutive classes without prior agreement of the Instructor and for reasons other than medical, compassionate, or accommodation - there will be a mandatory counselling meeting with the Instructor and withdrawal from the course may be recommended depending upon the circumstances.

Faculty of Environmental Design Grading

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	95-100	Outstanding - evaluated by instructor
A	4.00	3.85-4.00	90-94.99	Excellent - superior performance showing comprehensive understanding of the subject matter
A-	3.70	3.50-3.84	85-89.99	Very good performance
B+	3.30	3.15-3.49	80-84.99	Good performance
B	3.00	2.85-3.14	75-79.99	Satisfactory performance
B-	2.70	2.50-2.84	70-74.99	Minimum pass for students in the Faculty of Graduate Studies
C+	2.30	2.15-2.49	65-69.99	All final grades below B- are indicative of failure at the graduate level and cannot be counted toward Faculty of Graduate Studies course requirements.
C	2.00	1.85-2.14	60-64.99	
C-	1.70	1.50-1.84	55-59.99	
D+	1.30	1.15-1.49	50-54.99	
D	1.00	0.50-1.14	45-49.99	
F	0.00	0-0.49	0-44.99	

Notes:

- A student who receives a "C+" or lower in any one course will be required to withdraw regardless of their grade point average (GPA) unless the program recommends otherwise. If the program permits the student to retake a failed course, the second grade will replace the initial grade in the calculation of the GPA, and both grades will appear on the transcript.

Readings

There is no required textbook but required and suggested readings will be posted by the Instructor on D2L throughout the term.

Notes: PLEASE READ

1. Written work, term assignments and other course related work may only be submitted by e-mail if prior permission to do so has been obtained from the course instructor.
Submissions must come from an official University of Calgary (@ucalgary) email account.
2. **Academic Accommodations.** Students who require an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to their Instructor or the designated contact person in EVDS, Jennifer Taillefer (jtaillef@ucalgary.ca). Students who require an accommodation unrelated to their coursework or the requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience). For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/
3. **Plagiarism** - Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. **Most commonly plagiarism exists when:(a) the work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test),(b) parts of the work are taken from another source without reference to the original author,(c) the whole work (e.g., an essay) is copied from another source, and/or,(d) a student submits or presents work in one course which has also been submitted in another course(although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved.** While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence. It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.
4. **Appeals:** If a student has a concern about the course, academic matter, or a grade that they have been assigned, they must first communicate this concern with the instructor. If the concern cannot be resolved with the instructor, the student can proceed with an academic appeal, which normally begins with the Faculty: <http://www.ucalgary.ca/provost/students/ombuds/appeals>
5. Information regarding the Freedom of Information and Protection of Privacy Act (<https://www.ucalgary.ca/legalservices/foip>)
6. **Emergency Evacuation/Assembly Points**
(<http://www.ucalgary.ca/emergencyplan/assemblypoints>)

7. **Safewalk information** (<http://www.ucalgary.ca/security/safewalk>)

8. **Contact Info** for: Student Union (<https://www.su.ucalgary.ca/contact/>); Graduate Student representative (<https://gsa.ucalgary.ca/about-the-gsa/gsa-executive-board/>) Student Union Wellness Centre: <https://www.ucalgary.ca/wellnesscentre/>; Library Resources: <http://library.ucalgary.ca/> and Student Ombudsman's Office (<http://www.ucalgary.ca/ombuds/>).