



Landscape Response to Climate Change			
Course Number	EVDL 639		
Pre/Co-Requisites	N/A		
Instructor Name	Dr. Mary-Ellen Tyler	tyler@ucalgary.ca	403-804-9252
Office Location	PF 2107		
TA Name	N/A		
Class Dates	Fall 2019: Fridays		
Class Times	9:00am to 12:50am		
Class Location	PF 2140		

Course Information / Description of the Course

This course explores a spatial systems approach to climate change adaptation at a regional landscape scale using network analysis and swarm theory to understanding landscape change. The course focuses on four areas:

- regional landscape change,
- landscape responses to climate change,
- regional scale spatial landscape design based on projective ecologies.

A regional field trip will 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.

Learning Resources

Required Readings and Learning Materials will be posted for access on the Course D2L site. For purposes of accessing D2L you must make sure you are registered in the course and with your U of C email address. Please use your U of C email address to receive course communications from the Instructor and access D2L readings and resources. Please note that D2L sites are initialized by the University of Calgary's IT services. Your Instructor will advise you when the course D2L site can be accessed.

Course Learning Outcomes

At the end of this course, students will be able to:

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

Assessment Components

Assessment Method	Description	Weight	Aligned Course Learning Outcome
Assignment 1	Landscape Analysis + Regional Site Selection	20	1
Assignment 2	Swarm Theory + Landscape Pattern	25	2
Assignment 3	Landscape Connectivity	25	1 + 2
Assignment 4	Projective Ecology + Design Intervention	30	3

Assessment and Evaluation Information

Attendance at classes and in course field trips is expected and required unless there are medical or formal accommodation situations. If you know you are not going to be able to attend a class or go on a field trip due to unexpected circumstances, please contact the Instructor by phone/text/email preferably in advance of your absence if possible. If you are absent from two consecutive classes or field trips or fail to submit two consecutive assignments without contacting and advising the Instructor of your situation, then you may be required to withdraw from the course.

Digital submission of assignments by email, D2L, or USB are accepted unless the Instructor has explicitly requested that assignments be submitted in hard copy or verbally presented with a power point presentation.

Participation in any group work will be carefully monitored by the Instructor to ensure a full contribution by all group members. Any group issues/problems that you feel require attention should be reported immediately either by private appointment or via email to the Instructor in order to find a constructive solution as quickly as possible.

There is no single final examination. Participants will be evaluated on the basis of a series of course assignments as outlined in the course schedule. Written assignments are expected to be at the graduate level of written English consistent with Faculty of Graduate Studies (FGS) guidelines available through the following link:

<https://www.ucalgary.ca/pubs/calendar/current/e-2.html>

Late assignments will not be accepted except for medical or compassionate grounds (such as a death in the family or a sick child) or unless there is a formal accommodation letter provided to the Instructor at the beginning of the term.

Course assignments are progressive – meaning each assignment is sequentially more complex and worth more. The grade assigned to each participant for the course will be based on the cumulative results of all assignments.

Please note that FGS academic regulations state that a final course grade of "C+" or lower will result in required withdrawal from your degree program regardless of your overall grade point average (GPA) unless the program recommends otherwise. If the program permits a 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 your official transcript.

Grading Scale				
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	

PLEASE DO NOT MAKE ANY TRAVEL OR WORK PLANS THAT CONFLICT WITH THIS COURSE SCHEDULE

*** PLEASE NOTE THERE WILL BE ONE ALL DAY COURSE FIELD TRIP TO BE CONFIRMED**

Topic Areas & Detailed Class Schedule

*** This schedule may be subject to change due to unforeseen circumstances**

Course Schedule Date	Topic	Assignments/Due Dates
September 6, Friday	1 st Class: Course Overview	Assignment 1 hand out
September 13, Friday	All Day Field Trip*	
September 20, Friday	<ul style="list-style-type: none"> Landscape Change and Climate Change at the Landscape level Assignment 1 Demonstration 	*Back up Field Trip Date
September 27, Friday	Assignment 1 Presentations <ul style="list-style-type: none"> Assignment 2 Demonstration 	Assignment 2 hand out
October 4, Friday	<ul style="list-style-type: none"> Landscape Connectivity and Pattern 	
October 11, Friday	Assignment 2 Presentations <ul style="list-style-type: none"> Swarm Theory and Network Theory Part 2 	Assignment 3 hand out
October 18, Friday	<ul style="list-style-type: none"> Assignment 3 demonstration Swarm Theory and Network Theory Part 2 	
October 21 – 25	SAPL Block Course Week No class	
November 1, Friday	<ul style="list-style-type: none"> Tutorials Assignment 3 	
November 8, Friday	Assignment 3 Presentations <ul style="list-style-type: none"> Assignment 4 Demonstration 	Assignment 4 hand out
November 11 – 14	U of C Mid-term break	

	No SAPL classes	
November 22, Friday	<ul style="list-style-type: none"> • Design Intervention + Projective Ecologies Part 2 • Assignment 4 Tutorials 	
November 29, Friday	Assignment 4 Tutorials	
December 6, Friday	Assignment 4 Presentations	
Note 1: Friday, December 6 is the LAST DAY OF SAPL CLASSES FALL TERM 2019		
Note 2: MLA + MPlan Final Studio Reviews the Week of December 9 – 13/19		

Media and Recording in Learning Environments

Part 1

University Calendar: <https://www.ucalgary.ca/pubs/calendar/current/e-6.html>

Recording of lectures (other than audio recordings that are pre-arranged as part of an authorized accommodation) is not permitted.

Students may not record any portion of a lecture, class discussion or course-related learning activity without the prior and explicit written permission of the course instructor or authorization from Student Accessibility Services. For any other use, whether by duplication, transcription, publication, sale or transfer of recordings, written approval must be obtained from the instructor for the specific use proposed. Any use other than that described above constitutes academic misconduct and may result in suspension or expulsion.

Part 2

The instructor may use media recordings to capture the delivery of a lecture.

The instructor will notify all students and guests in the class that the event is being recorded. If a student or guest wants to take steps to protect privacy, and does not want to be recorded, the instructor will provide the individual (s) with an alternative means of participating and asking questions (e.g., passing written notes with questions). Students cannot be penalized for choosing not to be recorded in situations where participation is part of the course. Students must be offered other ways of earning participation credit that do not involve recording.

Any video-recording would be intended to only capture the instructor and the front of the classroom. Students/other participants would not necessarily be visible on video recordings.

Special Budgetary Requirements

Special budgetary requirements are limited to the optional purchase of course readings and, in specific courses, mandatory supplementary fees to cover certain expenditures, such as field trips. Mandatory supplementary fees must be approved by the University prior to implementation. Instructors are required to list and describe approved optional and mandatory supplementary fees for courses. This can include possible costs incurred for special materials, equipment, services, or travel.

Mandatory:

The University has approved supplemental fees for the following courses:
2019/2020 SUPPLEMENTARY COURSE FEES

EVDL 639 – Landscape Response to Climate Change	\$90.00
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University of Calgary Policies and Supports

ACADEMIC ACCOMMODATION

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at <http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>.

ACADEMIC MISCONDUCT

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, (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. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

COPYRIGHT LEGISLATION:

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.

FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary.

UNIVERSITY STUDENT APPEALS OFFICE: 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.

<https://ucalgary.ca/student-appeals/>

More student support and resources (e.g. safety and wellness) can be found here:

<https://www.ucalgary.ca/registrar/registration/course-outlines>