



Winter 2024

Course Number	LAND610	Classroom	PF3176
Course Name	Green Infrastructure/Winter City Design		
Pre/Co-Requisites			
Instructor	Tawab Hlimi	Office Hours/Location	PF3190 by appointment
	Email: tawab.hlimi@ucalgary.ca		
Class Dates	Mon. Jan. 8 – Tues. Apr. 9, 9am-1:00pm		
Instructor Email Policy	Please note that all course communications must occur through your @ucalgary email, and I will respond to emails sent via student's @ucalgary emails within 48 hours.		

Course Description:

This course is an exploration of the *interdisciplinary* topic of *green infrastructure*, drawing from diverse fields of knowledge such as the environmental humanities, landscape ecology, transportation planning, watershed planning, and stormwater management. There are two streams of exploration. The first emphasizes history and theory, through critical perspectives on the topic of *infrastructure*, with an emphasis on the aspect of *green*. The second stream emphasizes professional practice and prospects through a design project on integrated stormwater management and transportation planning. The topic of “winter city design” will also be explored critically through both streams. From the perspective of history and theory, the idea of the winter city will be explored largely through the opposing frameworks of *modernism* and *traditionalism*. From the perspective of professional practice, the “winter city”, i.e. Calgary will serve as the background, context, or “place”, implicating the design project through opportunities and constraints particular to geography, climate, and the nature of the urban fabric. Lastly, considering the *transdisciplinary* nature of this course, the teaching and learning environment will be structured as a laboratory or in more familiar terms a studio in which both the students and instructors have the agency to contribute to the expansion of the traditional boundaries of landscape architecture into the realm of infrastructure design through the conduction of research and its subsequent application.

Calendar Description:

https://sapl.ucalgary.ca/evds_info/courses/w24/LAND610?destination=courses%2Fw24

An introduction to the systems of urban and regional resource management through targeted green infrastructure projects, particularly in a winter city context. Provides background on current methods, the state-of-the-art, and research and development that will shape future technologies. Identifies contemporary approaches, and sociocultural, and ecological concepts for using plant material in landscapes, green roofs and biomass.

Course Hours: 3 units; (2-2 Tutorial)

Course Learning Objectives:

1. To develop a foundational knowledge on the history and theory of the topics of *green infrastructure*, and *winter cities*, primarily through the disciplinary perspectives of landscape architecture, urban design, and planning.
2. To become familiar with the diversity of disciplinary and professional practice perspectives on the topic of green infrastructure through guest lectures.
3. To develop a transdisciplinary design methodology in integrated stormwater management and transportation planning through a site-specific project.

Learning Resources:

Required readings, textbooks and learning materials: TBD

Assessment Components:

Assessment Method	Description	Weight (%)	Aligned Course Learning Outcome
Project 1	Critical Readings (weekly)	40	1,2,3
Project 2	Case Study Project	25	1,2,3
Project 3	Integrated Stormwater and Transportation Planning/Design	35	1,2,3

Assessment and Evaluation Information

Attendance and Participation Expectations:

Students are expected to be in attendance for the full duration of each class, and to actively participate in class discussions, particularly assigned readings.

Guidelines for Submitting Assignments: A

All assignments to be submitted on D2L.

Expectations for Writing (<https://www.ucalgary.ca/pubs/calendar/current/e-2.html>):

Late Assignments:

All assignments will be subject to a letter grade deduction per day. For example an A- would be reduced to a B+ for an assignment submitted one weekday late.

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	

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

The School of Architecture, Planning and Landscape will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

<https://www.ucalgary.ca/pubs/calendar/current/f-1-3.html>

Topic Areas & Detailed Class Schedule

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Course Schedule Date	Topic	Assignments/Due Dates
Week 1 – Jan. 8	Project 1 Intro: Lecture 1: Introduction to Green Infrastructure	
Week 2 – Jan. 15	Lecture 2: The Winter City Guest Lecture: Isla Tanaka on Edmonton's Winter City Strategy @10am	
Week 3 – Jan. 22	Lecture 3: Historical Precedents to Green Infrastructure	
Week 4 – Feb. 5	Project 1 Presentations	
Week 5 – Feb. 12	No class – block week	
Week 6 – Feb. 19	No class – term break	
Week 7 - Feb. 26	Lecture 4: TBD Project 2 Introduction	
Week 8 – Mar. 4	Guest Lecture: Calgary Water Resources and ALIDP – Bert Van Duin, Leta Van Duin	
Week 9 – Mar. 11	Assignment 2 Presentations Guest Critics: Calgary Water Resources and ALIDP – Bert Van Duin, Leta Van Duin	
Week 10 – Mar. 18	Lecture 5: Active Transportation Assignment 3 – Intro.	
Week 11 – Mar. 25		
Week 12 – Apr. 1	No class – Easter Monday	
Week 13 – Apr. 9	Project 3 presentations	

University of Calgary Policies and Supports

ACADEMIC ACCOMMODATION

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-accommodation-policy>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>. Students needing 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 (contact information on first page above).

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/.

ACADEMIC MISCONDUCT

Academic Misconduct refers to student behavior which compromises proper assessment of a student's academic activities and includes: cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor's expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.

For information on the Student Academic Misconduct Policy and Procedure please visit: <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-policy>

Additional information is available on the Academic Integrity Website at <https://ucalgary.ca/student-services/student-success/learning/academic-integrity>.

COPYRIGHT LEGISLATION:

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (<https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy>) 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 (<https://www.ucalgary.ca/pubs/calendar/current/k.html>).

INSTRUCTOR INTELLECTUAL PROPERTY

Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

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.

SEXUAL AND GENDER-BASED VIOLENCE POLICY

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. The University of Calgary's sexual violence policy guides us in how we respond to incidents of sexual violence, including supports available to those who have experienced or witnessed sexual violence, or those who are alleged to have committed sexual violence. It provides clear response procedures and timelines, defines complex concepts, and addresses incidents that occur off-campus in certain circumstances. Please see the policy available at <https://www.ucalgary.ca/legal-services/university-policies-procedures/sexual-and-gender-based-violence-policy> .

UNIVERSITY STUDENT APPEALS OFFICE

If a student has a concern about a grade that they have received, they should refer to Section I of the Undergraduate Calendar (<https://www.ucalgary.ca/pubs/calendar/current/i-3.html>) which describes how to have a grade reappraised. In addition, the student should refer to the SAPL's Procedure for reappraisal of grades

OTHER IMPORTANT INFORMATION

Please visit the Registrar's website at: <https://www.ucalgary.ca/registrar/registration/course-outlines> for additional important information on the following:

- Wellness and Mental Health Resources
- Student Success
- Student Ombuds Office
- Student Union (SU) Information
- Graduate Students' Association (GSA) Information
- Emergency Evacuation/Assembly Points
- Safewalk