



Course Number	LAND610	Classroom	Zoom
Course Name	Green Infrastructure/Winter City Design		
Pre/Co-Requisites			
Instructor	Tawab Hlimi	Office Hours/Location	Zoom
	Email: Tawab.hlimi@ucalgary.ca		Phone: 587-973-4169
Class Dates	Tues. Jan. 12 – Tues. Apr. 13, 9:00am to 12:50pm		
Instructor Email Policy	All all course communications must occur through your @ucalgary email, and I will respond to emails within 48 hours.		

Course Description

This course is an exploration of the cross-disciplinary, and cross-scalar topic that is green infrastructure. The first third of the course will emphasize the history and theory of the green infrastructure concept through readings, class discussions, and presentations. The second third will emphasize methods and technologies in designing green stormwater systems. The last third will emphasize integrated green stormwater and transportation systems. The topic of winter city will be covered in lectures, readings, and will serve as the background for assignment 3. The course is divided into Lecture and Lab sections – Lecture sessions will cover design theory, methods, technologies, and professional practice perspectives through guest lectures. Lab sections will be dedicated to project development, discussion of readings, independent work sessions, tutorials, critiques, and reviews. Students are expected to use class time productively.

[University of Calgary : Landscape Architecture LAND \(ucalgary.ca\)](http://ucalgary.ca)

Course Hours: 3 units; (2-1Tutorial)

Online Delivery

This course will take place **online** via Desire2Learn (D2L) and Zoom. Students are required to participate in the asynchronous learning tasks using the D2L learning environment and synchronous Zoom sessions. If unable to participate live due to unforeseen circumstances, inform the instructor in advance to work out an alternative participation activity (e.g., watch the recordings, submit a brief reflection, and actively contribute to the follow-up online discussion).

Course Learning Objectives

1. To acquire foundational knowledge on the history and theory of the topic of green infrastructure, primarily through the disciplinary perspectives of planning and landscape architecture.
2. To acquire foundational knowledge on the history and theory of the winter city concept.

2. To become familiar with the diversity of professional practice perspectives on the topic of green infrastructure through guest lecturers.
3. To develop an understanding of contemporary design methods and technologies in urban stormwater design and management through site-specific projects.
5. To situate the design of green infrastructure in the particularities of a winter city (Calgary).

Learning Resources Include any required textbooks and/or readings. Specify if a link to any required textbooks and/or readings will be provided in the course D2L site. Review copyright information for all resources included (see <https://library.ucalgary.ca/copyright>) and ensure all readings and other electronic resources have been reviewed for copyright compliance by contacting copyright@ucalgary.ca prior to the start of term.

Required readings, textbooks and learning materials:

Technology requirements: In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Broadband internet connection

Most current laptops will have a built-in webcam, speaker and microphone.

Additional Classroom Conduct and Related Information

Guidelines for Zoom Sessions in Online Classes

Students are expected to participate actively in all Zoom sessions and to turn on their webcam. Please join our class in a quiet space that will allow you to be fully present and engaged in the Zoom sessions. Students must behave in a professional manner during the session. Students, employees, and academic staff are also expected to demonstrate behaviour in class that promotes and maintains a positive and productive learning environment.

Assessment Components

Assessment Method	Description	Weight	Aligned Course Learning Outcome
Assignment 1		30	1,2,3,4,5
Assignment 2		35	1,2,3,4,5
Assignment 3		35	1,2,3,4,5

Assessment and Evaluation Information

Attendance and Participation Expectations:

Students are expected to be in attendance for the full duration of every class.

Guidelines for Submitting Assignments:

All assignments are to be submitted on D2L.

Final Examinations:

There will be no final examination.

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

Late Assignments:

Late presentation and/or late submission of work on D2L is not acceptable and will be subject to a deduction of one grade increment per late day. For example an A will be downgraded to an A-.

Criteria that must be met to pass:

Each assignment must be completed and a passing grade of B- must be achieved on all assignments in order to pass the course as a whole.

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.

Topic Areas & Detailed Class Schedule

Include information relevant to the class schedule, such as weekly topics, readings, and assignment due dates. For online, remote or blended courses include whether course activities are synchronous (i.e., real-time/Zoom) and asynchronous (i.e., students complete on their own time such as discussion boards, watching videos, etc.). It is recommended that important dates including the first day of classes, holidays, term breaks and last day of classes also be included.

Course Schedule Date	Topic	Assignments/Due Dates
Week 1 – Jan. 12	Course Intro. Assignment 1 Intro Lecture 1: Introduction to Green Infrastructure	
Week 2 – Jan. 19	Lecture 2: The Winter City Guest Lecture: Isla Tanaka on Edmonton's Winter City Strategy @10am	Assignment 1 Progress Review Discussion of Readings
Week 3 – Jan. 26	Lecture 3: Historical Precedents to Green Infrastructure Guest Lecture: Graham Livesey, on Garden Cities @10am	Assignment 1 Progress Review Discussion of Readings
Week 4 – Feb. 2	Assignment 1. Presentations	
Week 5 – Feb. 9	Assignment 2 Intro. Tech. Lecture 1	
Week 6 – Feb. 16-20	No classes – term break	
Week 7 - Feb. 23	Lecture 4: TBD Tech. Lecture 2 Guest Lecture: Sans Facon	Discussion of Readings
Week 8 – Mar. 2	Guest Lecture: Calgary Water Resources and ALIDP – Bert Van Duin, Leta Van Duin	
Week 9 – Mar. 9	Assignment 2 Presentations Guest Critics: Calgary Water Resources and ALIDP – Bert Van Duin, Leta Van Duin	
Week 10 – Mar. 15-19	No classes / SAPL Block Week	
Week 11 – Mar. 23	Lecture 5: Active Transportation Assignment 3 – Intro. Tech. Lecture 3	Discussion of Readings
Week 12 – Mar. 30	Guest Lecture: Landscape Performance – Megan Barnes from Landscape Architecture Foundation Tech. Lecture 4	Discussion of Readings
Week 13 – Apr. 6	Lecture 6: TBD Guest Lecture: Kerry Ross on Green Roofs and Walls	
Week 14 – Apr. 13	Assignment 3 Presentations	

Guidelines for Zoom Sessions

Zoom is a video conferencing program that will allow us to meet at specific times for a “live” video conference, so that we can have the opportunity to meet each other virtually and discuss relevant course topics as a learning community.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor’s permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith, and respect (as per the [Code of Conduct](#)). When entering Zoom or other video conferencing sessions (such as MS Teams), you play a role in helping create an effective, safe and respectful learning environment. Please be mindful of how your behaviour in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities.

Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies (e.g. [Student Non-Academic Misconduct Policy](#)). If participants have difficulties complying with this requirement, they should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your zoom sessions visit:

<https://elearn.ucalgary.ca/guidelines-for-zoom/>

If you are unable to attend a Zoom session, please contact your instructor in advance to arrange an alternative activity for the missed session (e.g., to review the recorded session). Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (for group work, presentations, etc.).

The instructor may record online Zoom class sessions for the purposes of supporting student learning in this class – such as making the recording available for review of the session or for students who miss a session. Students will be advised before the instructor initiates a recording of a Zoom session. These recordings will be used to support student learning only and will not be shared or used for any other purpose.

University of Calgary Policies and Supports

COVID-19 PROCEDURE FOR SICK STUDENTS: <https://ucalgary.ca/risk/sites/default/files/Covid-19%20Folder/COVID-19-Procedure-for-Sick-Students.pdf>

ACADEMIC ACCOMMODATION

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The Student Accommodations policy is available at <https://ucalgary.ca/student-services/access/prospective-students/academic-accommodations>.

Students needing an accommodation based on disability or medical concerns should contact Student Accessibility Services (SAS) in accordance with the Procedure for Accommodations for Students with Disabilities (<https://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities.pdf>). 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.

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://ucalgary.ca/policies/files/policies/student-academic-misconduct-policy.pdf>
<https://ucalgary.ca/policies/files/policies/student-academic-misconduct-procedure.pdf>
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 (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 (<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 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/policies/files/policies/sexual-violence-policy.pdf>

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://www.ucalgary.ca/secretariat/student-appeals>

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