



UNIVERSITY OF CALGARY
SCHOOL OF ARCHITECTURE,
PLANNING AND LANDSCAPE

Winter 2024

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| Course Number | PLAN 612 | Classroom | Field Studies, In-class Classroom- TBD |
| Course Name | Urban Infrastructure and Land Use | | |
| Pre/Co-Requisites | | | |
| Instructor | Dr. Teresa Goldstein | Office Hours/Location | By Appointment Only |
| | Email: Teresa.goldstein@ucalgary.ca | Phone: 403-371-5859 | |
| Class Dates | In-person Lectures and Field Studies- Fridays 9am-12pm | | |
| 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. | | |
| Name and Email of Assistant Instructor | Ostap Fedynets- Ostap.fedynets@calgary.ca | | |

Course Description:

[PLAN 612 - Urban Infrastructure and Land Use - Winter 2024 | University of Calgary Contacts \(ucalgary.ca\)](#)

Welcome to the Winter 2024 offering of Urban Infrastructure and Land Use Planning! In this course students will be acquainted with the key infrastructure systems of a city. We will discuss the relationship between infrastructure systems and land use, and its impacts on quality of life, economic development, spatial structure, and the environment.

The course will place a strong emphasis on human systems, the modernization of infrastructure, and field studies. It will examine diverse institutional frameworks pertaining to the delivery of infrastructure systems, with a particular focus on understanding how humans live and work within these systems. The examination will delve into the current built environment, policies, standards, practices, challenges, and innovations within the following infrastructure sectors:

Housing and Land Use Regulation
Public Realm
Roads & Mobility

Water and Sanitary Treatment
Trees, Parks & Open Space
Main Streets

A working knowledge of the municipal planning system is an asset but not a requirement for success in the course.

Course Hours: 3 hours (Lecture/ Field Studies)

Online Delivery

This is a practice-based course that will take place in-person. In-person field trips are planned. If unable to participate live due to unforeseen circumstances, inform the instructor in advance to work out an alternative participation activity.

Additionally, the course will consist of a course project, presentation, and discussions. Lectures will be provided to augment field studies and a survey of practice-based approaches to the course material, information about the local context and technical instruction.

Project and course feedback will be provided through discussions during class time, presentations and formal reviews. The instructor is there to support this process through teaching, feedback and discussion.

(Only if the University transfers to online delivery only). This course will take place **online if applicable** 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 Outcomes:

Upon completion of this course, students will know and be able to:

1. Successfully articulate and understand the planning and design processes involved in major urban infrastructure.
2. Demonstrate the ability to identify, evaluate, and critically assess both current methodologies and emerging innovations in urban infrastructure and land use.
3. Foster and demonstrate a layered approach to practice that systematically evaluates the crucial links between infrastructure and land use.
4. Understand and develop a series of methods and strategies for designing integrated and modern infrastructures.

Learning Resources:

Readings will be assigned to complement the lectures. Students will be required to complete these readings prior to the related lecture. You may be questioned in class regarding these readings – please come prepared.

Technology requirements (D2L etc.):

You will need access to a computer equipped with Power Point or similar software.

(If we transition online) In order to successfully engage in the 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
- [Student IT Resources](#)

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

The course incorporates a variety of teaching and learning approaches and includes lectures, guest lectures, project-based learning, and field trips. Students will be given the opportunity to apply critical and creative thinking to the topics in the course.

Assessment Components:

The course evaluation will be based on the 3 assignments completed during the term, as well as course/ field study participation and engagement. There will be no final examination. Students must achieve a passing grade in all assignments to complete the course successfully.

Assignment 1: Infrastructure Typology- Evaluation in Urban Context (Outline) 20% Due: Feb 02
 Assignment 2: Infrastructure Typology- Evaluation in Urban Context (Final) 40% Due: March 15
 Assignment 3: Infrastructure Typology- Presentation 25% Due: April 19*
 Field Studies Participation and Engagement 15%

*date subject to confirmation TBD

TOTAL: 100%

| Assessment Method | Description | Weight | Aligned Course Learning Outcome |
|--------------------------------------|---|--------|---------------------------------|
| Infrastructure Typology Assignment 1 | Assess and provide an outline of the impact of a specific housing typology on urban infrastructure, land use, and site selection within a designated location of your choice. | 20% | Outcomes 1 and 2 |
| Infrastructure Typology Assignment 2 | Provide a final report and evaluation of the impact of a specific housing typology on urban infrastructure, land use, and site selection within a designated location of your choice. | 40% | Outcomes 1, 2, 3 and 4 |
| Infrastructure Typology Assignment 3 | Provide a presentation on the course work, highlighting the impact and evaluation of a specific housing typology on urban infrastructure, land | 25% | Outcomes 1, 3 and 4 |

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| | use, and site selection within a designated location of your choice. | | |
| Field Studies Participation and Engagement | Students are required to attend and participate through a series of field studies. | 15% | Outcomes 2, 3, 4 |

Assessment and Evaluation Information

Attendance and Participation Expectations:

Students are expected to be in attendance for the entirety of each class.

Assignments will be conducted individually. Attendance, engagement and participation are expected as a requirement for progress and is characterized by active involvement in the work, field study and class discussions.

This is a graded course. Incomplete (INC) and deferred term (DT) grades will be issued only for documented circumstances for which the student is clearly not able to complete the work due to significant illness, injury, etc. (please refer to Note: Academic Accommodation at the end of the syllabus). Evaluation will be based on the elements listed above. There will be no final examination. Assessment will be done on the basis of day-to-day performance as well as on the quality of work provided. While the product of the course work is important, equally important is the student's ability to develop as a practitioner and to work effectively within the class.

Guidelines for Submitting Assignments: A student who feels that a piece of graded term work (term paper, etc.) has been unfairly graded may have the paper re-graded. The student shall discuss the work with the instructor within fifteen days of being notified about the mark or of the item's return to the class. More information can be found in the Graduate Calendar:

<http://www.ucalgary.ca/pubs/calendar/grad/current/gs-o.html>

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

Late Assignments: Unless agreed to by the instructor on compassionate grounds, illness, or for reasons of academic accommodation (see note at the end of the syllabus), assigned work that is handed in late will be penalized 10% of the total available grade per calendar day late (this includes weekends and holidays). Assignments more than two calendar days late will not

be accepted, and no credit will be given for them. Assignments must be handed in or presented during scheduled class hours.

Final Examinations: N/A

Criteria that must be met to pass: Students must achieve a passing grade in all assignments to complete the course successfully.

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

Included for your information, a class schedule, weekly topics, readings, and assignment due dates. Topics are subject to change and adjustment.

| Date | Topic | Assignment |
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| January 12 | Overview of Course Syllabus Course Schedule History of Urban Infrastructure | |
| January 19 | Housing and Land Use Regulation | |
| January 26 | Missing Middle Housing | |
| Feb. 02- Assignment 1 (Research and Outline) | Assignment 1 | Assignment Title - Infrastructure Typology- Evaluation in Urban Context (Research and Outline) Objective: Assess and outline the context and area of impact of a specific housing typology on urban infrastructure, land use, and site selection within a designated location of your choice. |
| Feb 02 | Roads (Car & Transit) | |
| Feb 09 | Mobility (Walk & Bike) | |
| Feb 12-16 NO CLASS (Block Week) | | |
| Feb 19-23 NO CLASS (Reading week) | | |
| March 01 | Water 1 – Treatment/ Stormwater | |
| March 08 | Water 2 - Stormwater | |
| March 15 | Waste & Recycling | |

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| March 15- Assignment 2 (Final) | Assignment 2 | Assignment Title - Infrastructure Typology- Evaluation in Urban Context (Final Assignment) Objective: Provide a final assignment that highlights your assessment and analysis of the impact of a specific housing typology on urban infrastructure, land use, and site selection within a designated location. |
| March 22 | Trees, Parks and Open Spaces | |
| March 29 | Good Friday- University Closed | |
| April 01 | Easter Monday- University Closed | |
| April 05 | Main Streets | |
| April 12 | Studio/ Assignment Review | |
| April 19 (Final Presentations) | Assignment 3 | Assignment Title: Housing Typology Evaluation in Urban Context Presentation Objective: Prepare and deliver a presentation to the class, outlining the critical components of the housing typology evaluation, focusing on urban infrastructure, land use, and site selection. |

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