



COURSE NUMBER: ARCH 408
COURSE NAME: DESIGN THINKING in the BUILT ENVIRONMENT STUDIO II
Pre-Requisites: ARCH 406 Design Thinking in the Built Environment Studio I
Classroom: PF2151
Class Dates: **Mandatory, synchronous in-person classes: M/W/F 11:00 to 11:50am** (with the exception of holidays and Reading Week). Other asynchronous assignments due as described in the project briefs, throughout the duration of the course from January to April, 2022. COVID-19 NOTE: From January 10 until February 18 all classes will be conducted on-line. We should resume in-person classes after February 28. All dates and times listed in schedule below require attendance, regardless of modality

Instructor: **Barry Wylant**
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PF2104
Office Hours: by appointment, via Zoom

Instructor Email Policy: Please note that all course communications must occur using your @ucalgary.ca email address. I will respond to emails within 2 business days.

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COURSE DESCRIPTION

This course is intended for undergraduate students, from any discipline, interested in learning about architecture, design and the built environment. It is a second foundational studio course, offering an introduction to design, design thinking, design processes and aspects of design theory, as they may be applied to the built environment, specifically buildings, cities, and landscapes. As a studio course, students will work individually, and in teams, to complete a series of experiential learning exercises that address visual communication, problem solving, and interventions within an urban setting. This includes aspects of diagramming and visual communication, to identify and address, through design, aspects of the built environment. Students will be evaluated based on project submissions and a final portfolio of course projects. The course concludes with a capstone exercise targeting a design intervention for an urban setting in Calgary.

COURSE HOURS: 3 Units, (0-3)

IN-PERSON CLASS FORMAT

Given its studio format, this course will take place synchronously in PF2151 (M/W/F 11:00 to 11:50am) and supported by Desire2Learn (D2L). Students are required to participate in the synchronous classes, as per the noted times. Students will participate asynchronously, on their own time, watch videos (as required), and to complete class assignments,

projects and exercises. If, due to unforeseen circumstances, a student is unable to participate in a class session, please advise your TA ahead of time via email, cc'ing the instructor. **Please do this at least 24 hours ahead of the scheduled class time.**

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.

*Note that most current laptops have built-in webcam, speaker and microphone.

COURSE OBJECTIVES / LEARNING OUTCOMES

- Introduce design thinking and its application in design processes;
- Introduce diagramming as a means of exploring design issues and opportunities.;
- Introduce aspects of design ideation and presentation skills;
- Enhance visualization and design model making skills;
- Enhance individual abilities to generate design responses;
- Introduce design approaches, theories and methods, particularly those aimed at novel social innovations within a city / urban setting.

LEARNING RESOURCES / READINGS

The following readings provide useful reference/learning resources and are available online via the UofC library:

- Ching, F.D.K. *Architecture: Form, Space, and Order*. Hoboken, New Jersey: John Wiley & Sons, 2015.
- Ching, F.D.K. *Introduction to Architecture*. Hoboken, New Jersey: John Wiley & Sons, 2013.
- Gehl, J. *Cities for People*. Washington: Island Press, 2010.
- Legitimacities <https://mccconnellfoundation.ca/report/legitimacities/>
- Lupton, E. & Phillips, J.C. *Graphic Design: The New Basics: Second Edition, Revised and Expanded*. New York, New York: Princeton Architectural Press, 2015.
- Lynch, K. *The Image of the City*. Cambridge, Massachusetts: The MIT Press, 1960.
- Manzini, E., Walker, S., Wylant, B. *Enabling Solutions for Sustainable Living: A Workshop*. Calgary, Alberta: U of C Press, 2008.
- Pallasmaa, Juhani. "City Sense," In *Encounters*, edited by Peter MacKeith, 142-146. Helsinki: Rakennustieto, 2005.
- Zardini, Mirko. "A New Urban Takeover," in *Actions: What You Can Do with the City*, edited by Giovanna Borasi & Mirko Zardini, 12-17. Montreal: Canadian Centre for Architecture, SUN, 2008.
- Zardini, Mirko. "Toward a Sensorial Urbanism," in *Sense of the City*, edited by Mirko Zardini & Giovanna Borasi, 16-27. Montreal: The Canadian Center for Architecture & Lars Müller Publishers, 2005.

ASSESSMENT COMPONENTS / COURSE ASSIGNMENTS

The course is evaluated based on submitted project assignments and there are six projects in total for the term:

P1	10%	Diagramming Exercise	Issued Jan 10	Due Jan 24
P2	5%	Scripting	Issued Jan 24	Due Jan 28
P3	15%	Enabling Solution Exercise	Issued Jan 31	Due Feb 16
P4	50%	Capstone Urban Intervention Exercise	Issued Feb 18	Due Apr 11
P5	10%	Reflection paper	Issued Feb 28	Due Apr 18
P6	10%	Portfolio	Issued Feb 28	Due Apr 20

Attendance and Participation Expectations: Given the studio format for the course, and the project-based course work, attendance for all classes is expected. **Crucial to this is attendance for 'Crit' sessions, presenting interim studio work for discussion.**

Guidelines for Submitting Assignments: All assignments will be due in class on the noted due date. Additionally, all assignments must be submitted digitally to the designated Dropbox on D2L on the prescribed due date, in PDF format, including images of design projects, PDF presentations and papers.

Final Examinations: There is no final examination for this course.

Expectations for Writing (<https://www.ucalgary.ca/pubs/calendar/current/e-2.html>): Students are expected to write at a university level, demonstrating a highly proficient and professional use of English, proper citation methods, and compliance with academic regulations to negate instances of plagiarism and academic misconduct.

Late Assignments: Late submission of project assignments will result in a half grade penalty, per day late. After 10 days late, the assignment will receive an 'F' grade. Note that in rare circumstances, students may seek an extension for a particular project. Students should advise their TAs as soon as the need is known, provide the reason for the extension, and most importantly, provide a *plan* as to when the project assignment will be submitted. Students must advise their TAs at least 48 hours in advance of a given due date to be eligible for an extension, otherwise the project assignment will be graded according to the late submission protocol noted above.

Criteria that must be met to pass: students must complete all assignments by the prescribed due dates to pass. **Failure to submit ANY assignment will result in an automatic "F" grade for the course.**

TOPIC AREAS AND DETAILED CLASS SCHEDULE

Week 1	Jan 10	Course Outline	<i>P1 Issued</i>
	Jan 12	Diagram Lecture	
	Jan 14	Steps (words only) crits	
Week 2	Jan 17	Diagrammed steps crits	
	Jan 19	Combined steps crits	
	Jan 21	Combined steps crits	
Week 3	Jan 24	P1 Due /P2 Scripting Lecture	<i>P2 Issued</i>
	Jan 26	P2 Scripting Discussion	
	Jan 28	P2 Due	
Week 4	Jan 31	P3 Enabling Solutions Lecture	<i>P3 Issued</i>

	Feb 02	P3 Poster crits	
	Feb 04	P3 Poster crits	
Week 5	Feb 07	P3 Diagram crits	
	Feb 09	P3 Diagram crits	
	Feb 11	P3 Diagram crits	
Week 6	Feb 14	P3 Poster/Diagram crits	
	Feb 16	P3 Due	
	Feb 18	P4 City of Calgary Project	<i>P4 Issued</i>
Week 7	Feb 21	FAMILY DAY NO CLASS	
	Feb 23	READING DAYS NO CLASS	
	Feb 25	READING DAYS NO CLASS	
Week 8	Feb 28	P4 Photo inventory crits	<i>P5, P6 Issued</i>
	Mar 02	P4 part 1 Photo inventory Due / P4 precedents Lecture	
	Mar 04	P4 precedents discussion	
Week 9	Mar 07	P4 part 2 Precedents Due	
	Mar 09	P4 initial ideation discussion/crits	
	Mar 11	P4 initial ideation discussion/crits	
Week 10	Mar 14	Guest Lecture	
	Mar 16	P4 Ideation discussion/crits	
	Mar 18	P4 Ideation discussion/crits	
Week 11	Mar 21	P4 part 3 Program/Early Concept Due	
	Mar 23	P4 design development crits	
	Mar 25	P4 design development crits	
Week 12	Mar 28	P4 design development crits	
	Mar 30	P4 design development crits	
	Apr 01	P4 design development crits	
Week 13	Apr 04	P4 design development crits	
	Apr 06	P4 design development crits	
	Apr 08	P4 design development crits	
Week 14	Apr 11	P4 Due (Last day of Class)	
	Apr 13	Off-Schedule Wednesday Afternoon Reviews with City of Calgary	
Post Course:	Apr 18	P5 Due: uploaded to D2L	
	Apr 20	P6 Due: uploaded to D2L	

GRADE SCALE

Final grades shall be reported as letter grades, correlating to the grade point value as per column 2 below. Final grades shall be calculated according to the 4-point range as noted in column 3. Assignments calculated by percentage grades will use the equivalent values shown in column 4.

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	95-100	Outstanding -performance.
A	4.00	3.85-4.00	90-94.99	Excellent performance.
A-	3.70	3.50-3.84	85-89.99	Approaching excellent performance
B+	3.30	3.15-3.49	80-84.99	Exceeding good performance.
B	3.00	2.85-3.14	75-79.99	Good performance.
B-	2.70	2.50-2.84	70-74.99	Approaching good performance.
C+	2.30	2.15-2.49	65-69.99	Exceeding satisfactory performance.
C	2.00	1.85-2.14	60-64.99	Satisfactory performance.
C-	1.70	1.50-1.84	55-59.99	Approaching Satisfactory performance.
D+	1.30	1.15-1.49	50-54.99	Marginal Pass. Insufficient preparation for subsequent courses in the same subject.
D	1.00	0.50-1.14	45-49.99	Minimal Pass. Insufficient preparation for subsequent courses in the same subject.
F	0.00	0-0.49	0-44.99	Failure. Did not meet course requirements.

- A grade of “C-“ or below may not be sufficient for promotion or graduation, see specific faculty regulations.
- The number of “D” or “D+” grades acceptable for credit is subject to specific undergraduate faculty promotional policy.

GUIDELINES / CONDUCT 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.

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. Student must behave in a professional manner during the session. Students, employees, and academic staff are expected to demonstrate behaviour in class that promotes and maintains a positive and productive learning environment.

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.

SPECIAL BUDGETARY REQUIREMENTS

Please note that students will incur the cost of project materials necessary to complete the design exercise assignments. Assignments are structured to minimize these costs however, they are contingent upon the student's creative design work and cannot therefore be precisely anticipated. Supplies specific to each project will be noted in the project briefs, when the project is issued (see project schedule above). Additionally, the following design/drafting supplies will be needed to execute projects in the studio (some are noted as optional):

- drawing pencils: 3H, 2H, HB, 4B, 6B
- pencil sharpener
- mechanical pencils and leads (either 0.5mm or 2mm) are optional
- White drawing eraser
- fine point drafting markers for projects 5 & 6 (detail will be provided when projects are issued)
- A roll of tracing paper is helpful for projects 5 & 6
- Drawing straight edges (drafting set squares a.k.a. triangles, plastic ruler, etc.)
- T-square is optional
- Circle and elliptical templates are useful, but optional and not required.
- A metric drafting scale is optional, a metric ruler is required
- Drafting masking tape
- Matt knife
- Cutting pad
- Hot melt glue gun
- 18" cork-backed steel ruler

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 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.

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