



Course Number: ARCH 408

Course Name: Design Thinking in the Built Environment Studio II

Classroom:

Instructor: Volodymyr (Vlad) Amiot

Email: volodymyr.amiot@ucalgary.ca

• Phone: 587.578.0560

Office Hours and Location: By Appointment (Zoom)

• Instructor Email Policy: Please note that all course communications must occur through your @ucalgary email. I will respond to emails sent via students' @ucalgary emails within 48 hours.

Teaching Assistants:

- Hosna Bahonar (hosna.bahonar1@ucalgary.ca)
- Sahil Kadiwar (sahil.kadiwar@ucalgary.ca)
- Veronica Briseño Castrejon (veronica.brisenocast@ucalgary.ca)

Class Dates:

- Mandatory in-person classes: Monday / Wednesday / Friday, January 8 April 8, 10:00 am to 10:50 am (except holidays and Reading Week)
- Mandatory final review: Wednesday, April 10, 9:00 am to 12:00 pm
- Other asynchronous assignments due, as described in the project briefs, throughout the duration of the course from January to April 2024

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 designing interventions within a context. 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 a setting in Calgary.

- Academic Calendar description: https://www.ucalgary.ca/pubs/calendar/current/architecture.html#47122
- Course Hours: 3 units; (0-3)

Requisites:

See <u>Section 3.3.5</u> of the Academic Calendar for more information regarding School of Architecture, Planning and Landscape courses.

- Prerequisite(s): ARCH 406 or ARST 431
- Corequisite(s): none

Course Delivery:

Given that this course is in a studio format, this course will take place synchronously in _______ (M/W/F, 10:00 to 10:50 am). 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 a student is unable to participate in a class session, please advise your Instructor and TA ahead of time via email. Please do this at least 24 hours ahead of the scheduled class time.

Course Learning Outcomes:

The course learning outcomes are to:

- 1. Introduce design thinking and its application in design processes
- 2. Introduce diagramming as a means of exploring design issues and opportunities
- 3. Introduce aspects of design ideation and presentation skills
- 4. Enhance visualization and design model making skills
- 5. Enhance individual abilities to generate design responses
- 6. Introduce design approaches, theories and methods, particularly those aimed at novel social innovations within an established context.

Learning Resources:

READINGS

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

- 1. Ching, F.D.K. Architecture: Form, Space, and Order. Hoboken, New Jersey: John Wiley & Sons, 2015.
- 2. Ching, F.D.K. Introduction to Architecture. Hoboken, New Jersey: John Wiley & Sons, 2013.
- 3. Gehl, J. Cities for People. Washington: Island Press, 2010.
- 4. Legitimacities. https://mcconnellfoundation.ca/report/legitimacities/
- 5. Lupton, E. and J.C. Phillips. *Graphic Design: The New Basics: Second Edition, Revised and Expanded*. New York, New York: Princeton Architectural Press, 2015.
- 6. Lynch, K. The Image of the City. Cambridge, Massachusetts: The MIT Press, 1960.
- 7. Manzini, E., S. Walker, and B. Wylant. *Enabling Solutions for Sustainable Living: A Workshop*. Calgary, Alberta: U of C Press, 2008.
- 8. Nippert-Eng, Christena. *Watching Closely: A Guide to Ethnographic Observation*. Oxford: Oxford University Press, 2015.
- 9. Pallasmaa, Juhani. "City Sense." In Encounters, edited by Peter MacKeith, 142-146. Helsinki: Rakennustieto, 2005.
- 10. Zardini, Mirko. "A New Urban Takeover." In *Actions: What You Can Do with the City*, edited by Giovanna Borasi and Mirko Zardini, 12-17. Montreal: Canadian Centre for Architecture, SUN, 2008.
- 11. 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.

TECHNOLOGY REQUIREMENTS

- 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

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) (optional)
- White drawing eraser
- Fine point drafting markers for Projects 5 and 6 (details provided when projects are issued)
- A roll of tracing paper is helpful for Projects 5 and 6
- Drawing straight edges (drafting set squares / triangles, plastic ruler, etc.)
- T-square (optional)
- Circle and elliptical templates are useful (optional and not required)
- A metric drafting scale (optional) and a metric ruler (required)
- Drafting masking tape
- Matt knife
- Cutting pad
- Hot melt glue gun
- 18" cork-backed steel ruler

Additional Classroom Conduct and Related Information:

- Code of Conduct: The SAPL Studio spaces and other SAPL/University-provided facilities and equipment are governed by the University's Student Non-Academic Misconduct Policy. Professional and courteous behavior is expected at all times. For more information, please refer to Appendix 1: Prohibited Conduct, including the following categories: 1. Protection of Individuals; 2. Protection of Property; 3. Protection of University Functions, Activities and Services; 4. False Information and Identification; 5. Possession or Use of Dangerous Objects, Drugs or Alcohol; 6. Aiding in the Commission of an Offence; 7. Contravention of Other Laws and University Policies; and 8. Failure to Comply with a Sanction.
- Students are expected to participate actively in all 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.

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

Assessment Components:

The University policy on grading and related matters is described in <u>F.1</u> and <u>F.2</u> of the Academic Calendar. In determining the overall grade in the course, the following weights will be used:

NO.	PROJECT	WEIGHT	ISSUED	DUE	ALIGNED OUTCOME
P1	Diagramming Project	10%	Jan 8	Jan 19	1,2
P2	Scripting Project	5%	Jan 22	Jan 26	1,3
Р3	Enabling Solution Project	20%	Jan 29	Feb 16	1,2,3,5
P4	Capstone Design Intervention Project				1,2,3,4,5,6
	P4.1 Understanding Site	10%	Feb 26	Mar 4	
	P4.2 Concept and Prototype	15%	Mar 6	Mar 20	
	P4.3 Design Development	20%	Mar 22	Apr 10	
P5	Reflection Paper	10%	Mar 1	Apr 15	6
Р6	Portfolio	10%	Mar 1	Apr 17	2,4

• Attendance and live participation for the entire duration of course assessments are mandatory (e.g., pin up review, final review, etc.) and must be completed in person unless otherwise stated. If a student is unable to participate live due to unforeseen circumstances, please inform the Course Instructor in advance. Missed assessments with a valid excuse, as defined by the University's guidelines (Section G.2.3) or with advance prior notification to the instructor, may be considered without penalty upon review of the student's attendance and participation record. Failure to be present for a course assessment as a result of an unexcused absence are grounds for failure in the course. You may be required to provide supporting documentation, as per Section M.1 of the Academic Calendar to support your request.

ATTENDANCE AND PARTICIPATION EXPECTATIONS

- Students are expected to attend and come prepared to meaningfully engage in all class sessions. This includes
 producing or preparing content necessary for discussion and contributing to individual and class-wide discussions
 and/or conversations/assessments with the Course Instructor.
- Excused Absences: In the event of an exceptional circumstance (e.g., illness, bereavement, etc.) or an exceptional opportunity (e.g., varsity athletic competition, national conference or awards ceremony, pow wow, etc.) up to four excused absences are allowable per semester before jeopardizing one's own course grade and ability to pass the course. However, any such accommodations must be approved by the Instructor with advance notice by the student.
- Unexcused Absences: Attendance at all class sessions and participation in all assessments is mandatory.
 Unexcused absences in excess of two per semester are grounds for failure in the course.
- Total Number of Absences: The combined total number of excused or unexcused absences per semester cannot
 exceed four per semester. Any number in excess are grounds for failure in the course.

GUIDELINES FOR SUBMITTING ASSIGNMENTS

- All assignments (e.g., projects, papers, presentations, etc.) must be turned in on time.
- Late Assignments: Late assignments will lose a letter grade every 24 hours after the submission date/time. Late assignments submitted more than four days late constitute automatic failure. Late assignments with a valid excuse, as defined by the University's guidelines (Section G.2.3) or with advance prior notification to the instructor, may be considered without penalty upon review of the student's attendance and participation record. Please let your instructor know immediately if you cannot meet the deadlines specified. You may be required to provide supporting documentation, as per Section M.1 of the Academic Calendar to support your request.

Each assignment shall be submitted digitally as a PDF, uploaded to the appropriate dropbox on the course D2L site. Assignments are to be submitted on the specified due date, by the beginning of the session at 10:00 am (if due on a day where we are meeting as a class). Some assignments may require the submission of a hard copy in addition to the digital submission.

FINAL EXAMINATIONS

There will be no examinations 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 (Chicago Style), and compliance with academic regulations to negate instances of plagiarism and academic misconduct.

CRITERIA THE 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 failing grade for the course.

Flexible Grade Option (CG Grade):

As per <u>Section 3.5.1</u> of the Academic Calendar, the School of Architecture, Planning and Landscape will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.

Grading Scale:

GRADE	GRADE POINT VALUE	4-POINT RANGE	PERCENT	DESCRIPTION
A+	4.00	4.00	95-100	Outstanding performance
Α	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
В	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
С	2.00	1.85-2.14	60-64.99	Satisfactory performance
C-	1.70	1.50-1.84	55-59.99	Approaching satisfactory performance. Minimum grade requirement for prerequisite courses.
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.

Topic Areas and Detailed Class Schedule:

- Please note that the activities scheduled on any particular day is subject to change based on semester and project
 progress. Should any activities change, an updated schedule will be sent out with as much notice as possible. The
 schedule of assignments and their due dates will remain as presented in this document.
- Readings will be assigned through the semester in conjunction with assignment handouts.

WEEK	DATE	TOPIC	ISSUED	DUE
	Jan 8	Course outline and introduction	P1	
WEEK 1 2 3 4 5 6 7 8 9	Jan 10	P1 diagram lecture		
	Jan 12	P1 steps (words only) desk crits		
	Jan15	P1 diagrammed steps desk crits		
2	Jan 17	P1 combined steps desk crits		
	Jan 19	P1 review		P1
	Jan 22	P2 introduction + scripting lecture	P2	
3	Jan 24	P2 scripting crits desk crit		
	Jan 26	P2 review		P2
	Jan 29	P3 introduction + enabling solutions lecture	Р3	
4	Jan 31	P3 abundant resource desk crit		
	Feb 2	P3 systems mapping lecture / exercise		
	Feb 5	P3 systems diagram desk crit		
5	Feb 7	P3 systems diagram desk crit		
	Feb 9	P3 opportunities lecture / exercise		
	Feb 12	P3 opportunities desk crit		
6	Feb 14	P3 opportunities desk crit		
	Feb 16	P3 review		Р3
	Feb 19	READING WEEK – NO CLASS		
7	Feb 21	READING WEEK – NO CLASS		
	Feb 23	READING WEEK – NO CLASS		
	Feb 26	P4.1 introduction + observation lecture	P4.1	
8	Feb 28	P4.1 observation exercise		
	Mar 1	P4.1 observation exercise desk crit	P5 + P6	
	Mar 4	P4.1 observation review		P4.1
9	Mar 6	P4.2 introduction and design opportunities lecture / discussion	P4.2	
	Mar 8	P4.2 guest lecture		
	Mar 11	P4.2 concept diagrams and prototype desk crit		
10	Mar 13	P4.2 concept diagrams and prototype desk crit		
	Mar 15	P4.2 concept diagrams and prototype desk crit		

	Mar 18	P4.2 prototype test		
11	Mar 20	P4.2 review and discussion		P4.2
	Mar 22	P4.3 introduction and design development discussion	P4.3	
	Mar 25	P4.3 design desk crit		
12	Mar 27	P4.3 design desk crit		
	Mar 29	GOOD FRIDAY – NO CLASS		
	Apr 1	EASTER MONDAY – NO CLASS		
13	Apr 3	P4.3 design desk crit		
	Apr 5	P4.3 design desk crit		
14	Apr 8	P4.3 presentation preparations and class conclusions		
	Apr 10	P4.3 final review (9:00 am – 12:00 pm, out-of-class time)		P4.3
Doct	Apr 15			P5
Post	Apr 17			Р6

Scheduled Out-of-Class Activities:

The following out-of-class activities are scheduled for this course:

ACTIVITY	LOCATION	DATE	TIME	DURATION
Final Review		Wednesday, April 10, 2024	9:00 am – 12:00 pm	180 minutes

There will be a final review of the capstone projects scheduled on Wednesday, April 10, 2024, 9:00 am -12:00 pm. It is imperative that students attend this review with external critics. Please plan to accommodate this in your schedule.

University of Calgary Policies and Supports:

UNIVERSITY OF CALGARY COVID-19 UPDATES AND PROCEDURES

https://www.ucalgary.ca/risk/emergency-management/covid-19-response/covidsafe-campus

ACADEMIC ACCOMMODATION

https://ucalgary.ca/student-services/access/prospective-students/academic-accommodations

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).

<u>Student Accessibility Services</u> will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit <u>www.ucalgary.ca/access/</u>.

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 Procedures please visit:

- Student Academic Misconduct Policy: https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-policy
- Student Academic Misconduct Procedure: https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-procedure

Additional information is available on the Academic Integrity Website at https://www.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 and Gender-Based Violence Policy guides us in how we respond to incidents of sexual and/or gender-based violence, including supports available to those who have experienced or witnessed sexual/gender-based violence, or those who are alleged to have committed sexual/gender-based 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.

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