



DESIGN THINKING in the BUILT ENVIRONMENT STUDIO II ARST 441 H(3-0)

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PF2104
Office Hours: by appointment

Teaching Assistants: TBD

Winter 2020 Lectures Monday, Wednesday, Friday
Time: 1:00 – 1:50 pm

Description of the Course

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 Calgary setting.

The course will take place within a studio space (PF2151) of the School of Architecture, Planning and Landscape (SAPL). As such, students will be exposed to the atmosphere and work of graduate students completing degrees in the SAPL professional design programs. Students will also be exposed to studio reviews, the Design Matters Lecture Series, and ongoing displays of student and professional design work in the SAPL Stantec Gallery.

Course Objectives and Learning Outcomes

This course has the following objectives:

- 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.

Learning Resources/Readings

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

Ching, F.D.K. *Architecture: Form, Space, and Order*. Hoboken, New Jersey: John Wiley & Sons, 2015.
(available online at the U of C Library)

Ching, F.D.K. *Introduction to Architecture*. Hoboken, New Jersey: John Wiley & Sons, 2013.
(available online at the U of C Library)

Gehl, J. *Cities for People*. Washington: Island Press, 2010.

Legitimacies <https://mcconnellfoundation.ca/report/legitimacies/>

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 ten assignments in total for the term:

P0	5%	Studio attendance/participation		
P1	10%	Diagramming Exercise	Issued Jan 13	Due Jan 24
P2	20%	Scripting/Enabling Solution Exercise	Issued Jan 27	Due Feb 14
P3	45%	Capstone Urban Intervention Exercise	Issued Feb 24	Due Apr 15
P4	10%	Reflection paper	Issued Feb 24	Due Apr 20
P5	10%	Portfolio	Issued Feb 24	Due Apr 22

Attendance and Participation Expectations: Given the studio format for the course, and the project-based course work, attendance for all classes is expected. As noted above, 5% of the course grade is assigned to studio participation.

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

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.**

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.

Topic Areas and Detailed Class Schedule

Week 1	Jan 13 Jan 15 Jan 17	Course Outline Diagramming Lecture P1 description/diagramming crits	<i>P1 Issued</i>
Week 2	Jan 20 Jan 22 Jan 24	P1 visualization crits P1 Combined Visual/description crits P1 Due: Discussion P1	
Week 3	Jan 27 Jan 29 Jan 31	P2 Scripting lecture P2 scripting exercise P2 slides due	<i>P2 Issued</i>
Week 4	Feb 03 Feb 05 Feb 07	P2 resource identification P2 poster crits P2 poster due	
Week 5	Feb 10 Feb 12 Feb 14	P2 diagram iteration P2 diagram crits P2 Due: Discussion P2	

Week 6	Feb 17 Feb 19 Feb 21	NO CLASS: FAMILY DAY NO CLASS: READING WEEK NO CLASS: READING WEEK	
Week 7	Feb 24 Feb 26 Feb 28	P3 Urban Enhancement Lecture P3 photography P3 image collage crits	<i>P3, P4, P5 Issued</i>
Week 8	Mar 02 Mar 04 Mar 06	P3 collage due Guest Lecture (NK stakeholders and sustainability in the city)* P3 stakeholder/constraints analysis diagramming	
Week 9	Mar 09 Mar 11 Mar 13	P3 analysis diagramming crits P8 analysis diagramming crits P3 analysis diagramming due	
Week 10	Mar 16 Mar 18 Mar 20	Guest Lecture (KK notions of play)* Intervention ideation crits P3 Intervention ideation due	
Week 11	Mar 23 Mar 25 Mar 27	P3 Intervention ideation iteration 1 P3 Intervention ideation iteration 1 crits P3 Intervention ideation iteration 1 due	
Week 12	Mar 30 Apr 01 Apr 03	P3 Intervention ideation iteration 2 P3 Intervention ideation iteration 2 crits P3 Intervention ideation iteration 2 due	
Week 13	Apr 06 Apr 08 Apr 10	P3 prepare presentation, P3 prepare presentation crits, NO CLASS: GOOD FRIDAY	
Week 14	Apr 13 Apr 15	NO CLASS: EASTER MONDAY P3 Due	
Post Course:	Apr 16 Apr 20 Apr 22	P3 PRESENTATIONS (all afternoon) P4 DUE: upload papers to D2L P5 DUE: upload PDF portfolios to D2L	

*Schedule is subject to change, and is dependent upon guest lecturer availability.

Media and Recording in Learning Environments

Part 1

University Calendar: <https://www.ucalgary.ca/pubs/calendar/current/e-6.html>

Recording of lectures (other than audio recordings that are pre-arranged as part of an authorized accommodation) is not permitted.

Students may not record any portion of a lecture, class discussion or course-related learning activity without the prior and explicit written permission of the course instructor or authorization from Student Accessibility Services. For any other use, whether by duplication, transcription, publication, sale or transfer of recordings, written approval must be obtained from the instructor for the specific use proposed. Any use other than that described above constitutes academic misconduct and may result in suspension or expulsion.

Part 2

The instructor may use media recordings to capture the delivery of a lecture.

The instructor will notify all students and guests in the class that the event is being recorded. If a student or guest wants to take steps to protect privacy, and does not want to be recorded, the instructor will provide the individual (s) with an alternative means of participating and asking questions (e.g., passing written notes with questions). Students cannot be penalized for choosing not to be recorded in situations where participation is part of the course. Students must be offered other ways of earning participation credit that do not involve recording.

Any video-recording would be intended to only capture the instructor and the front of the classroom. Students/other participants would not necessarily be visible on video recordings.

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. 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 7 & 9 (detail will be provided when projects are issued)
- A roll of tracing paper is helpful for projects 7 & 9
- 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
- Drafting masking tape
- Matt knife
- Cutting pad
- Hot melt glue gun
- 18" cork-backed steel ruler

Supplies specific to each project will be noted in the project briefs, when the project is issued (see schedule above).

UNIVERSITY OF CALGARY POLICIES AND SUPPORTS

Academic Accommodation

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; 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/. 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. The full policy on Student Accommodations is available at <http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf>.

Academic Misconduct

Plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not. Most commonly plagiarism exists when: (a) the work submitted or presented was done, in whole or in part, by an individual other than the one submitting or presenting the work, (b) parts of the work are taken from another source without reference to the original author, (c) the whole work (e.g., an essay) is copied from another source, and/or, (d) a student submits or presents work in one course which has also been submitted in another course (although it may be completely original with that student) without the knowledge of or prior agreement of the instructor involved. While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of

other scholars, intellectual honesty requires that such references be explicitly and clearly noted. Plagiarism is an extremely serious academic offence. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.

For information on academic misconduct and its consequences, please see the University of Calgary Calendar at <http://www.ucalgary.ca/pubs/calendar/current/k.html>

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.

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.

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

More Student Support and Resources (e.g. safety and wellness)

These can be found here: <https://www.ucalgary.ca/registrar/registration/course-outlines>