



INTRODUCTION TO DESIGN THINKING

EVDS 683.87 H(3-0)

Instructor: Barry Wylant

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PF2104

Office Hours: by appointment

Fall 2019

Lectures Tuesday/Thursday

Time: 12:20 – 1:50pm

Location: PF2140

Description of the Course

This course offers an introduction to design thinking. While based within an architectural framework, the course is intended to provide students with a broad understanding of design thinking such that insights can be applied in various disciplines, circumstances and across varying scales of design. Indeed, the course is open to all EVDS students, including MArch, MPlan, MLA, MEDes, and PhD candidates. Initially the course will cover aspects of visual/spatial design thinking such as geometric abstraction, form, space, and scale. Students will also gain exposure to design thinking approaches and characteristics, such as communication, problem space, intent, and iteration/prototyping. Links between design and culture will also be explored. Lastly, students will undertake a capstone exercise intended to demonstrate the student's ability to synthesize insights from various perspectives into a given design effort.

Course Objectives and Learning Outcomes

This course has the following objectives:

- Gain an understanding of design thinking and its application in the faculty design professions;
- Explore visual literacy in aspects of visual/spatial 2D and 3D composition including, shape/form, hierarchy, space, scale, etc.;
- Enhance individual abilities to generate design responses;
- Introduction and overview of the literature pertaining to design and design thinking;
- Synthesize connections between the literature (course readings) and the design exercises;
- Enhance individual design approaches and methods;
- Develop an understanding of the connection between design and culture.

Learning Resources/Readings

Students are expected to read the following prior to, and in preparation for, seminar sessions as noted below:

Sep. 17	Buchanan, Richard.	"Wicked Problems in Design Thinking." <i>Design Issues</i> . 8, 2 (1995): 5-21
Sep. 24	Simitch, A. & Warke, V.	<i>The Language of Architecture: 26 Principles Every Architect Should Know</i> . 2014. Rockport Publishers. (Ch. 1. Analysis, p 9-18; Ch. 2. Concept, p 19-26)
Oct. 08	Schön, Donald.	"Knowing in Action: The New Scholarship Requires a New Epistemology." <i>Change</i> . 27,6 (1995): 26-34.
	Wylant, Barry.	"Design and Thoughtfulness." <i>Design Issues</i> . 32,1 (2016): 72-82

Oct. 15	Scruton, Roger.	The Aesthetics of Architecture. 1979. Great Britain: Methuen & Co. Ltd. (Introduction, Chapter 5)
Oct. 29	Simitch, A. & Warke, V.	The Language of Architecture: 26 Principles Every Architect Should Know. 2014. Rockport Publishers. (Ch. 4. Program, p 37-48; Ch. 12. Scale, p 109-116)
Nov. 19	Hara, Kenya	Designing Design. 2014. Lars Müller Publishers. (Chapter 8 "What is Design")
Nov. 26	Wang, Tsugnjuang	"A New Paradigm for Design Studio Education." Journal of Art and Design Education. 29.2 (2010).

Assessment Components / Course Assignments

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

A0	10%	Participation (seminar attendance and participation)		
A1	5%	Rectilinear Exploration	Issued Sep 05	Due Sep 12
A2	12%	Presentation 1	Issued Sep 05	Due Oct 01
A3	5%	Curvilinear Exploration	Issued Sep 12	Due Sep 19
A4	5%	Figure/ground reversible 1	Issued Sep 19	Due Sep 26
A5	5%	Figure/ground reversible 2	Issued Sep 26	Due Oct 10
A6	12%	Presentation 2	Issued Sep 26	Due Nov 05
A7	5%	Found object	Issued Oct 10	Due Oct 17
A8	25%	Body at rest	Issued Oct 17	Due Dec 05
A9	16%	Synthesis paper	Issued Oct 31	Due Dec 16

Attendance and Participation Expectations: Given the seminar format for much of the course, and the project-based course work, attendance for all classes is expected. As noted above, 10% of the course grade is assigned to class 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 graduate 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 assignments will result in a half grade penalty, per business day late.

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 "C+" grade for the course. Additionally, a minimum passing grade of "B-" is required for Assignment A8 to pass 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 - 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.

CACB Student Performance Criteria

For students in the MArch program, the following CACB Student Performance Criteria will be covered in this course at a primary level (other criteria may be covered at a secondary level): A1: Design Theories, Precedents and Methods; A2: Design Skills; B1: Critical Thinking and Communication.

Topic Areas and Detailed Class Schedule

Week 1	Sep05	Course Outline	A1 Issued A2 Issued
Week 2	Sep 10 Sep 12	Design Thinking Lecture Discussion A1	A1 Due, A3 Issued
Week 3	Sep 17 Sep 19	Seminar: Buchanan, "Wicked Problems in Design Thinking" Discussion A3	A3 Due, A4 Issued
Week 4	Sep 24 Sep 26	Seminar: <i>Language of Architecture: Analysis/Concept</i> Discussion A4	A4 Due, A5, A6 Issued
Week 5	Oct 01 Oct 03	A2 Presentations A2 Presentations	A2 Due

Week 6	Oct 08	Seminar: Schön, "Knowing in Action" Wylant, "Design and Thoughtfulness"	
	Oct 10	Discussion A5	A5 Due, A7 Issued
Week 7	Oct 15	Seminar: Scruton: <i>Aesthetics of Architecture</i> , Intro, Chapter 5	
	Oct 17	Discussion A7	A7 Due, A8 Issued
Week 8	Oct 22	SAPL BLOCK WEEK	
	Oct 24	SAPL BLOCK WEEK	
Week 9	Oct 29	Seminar: <i>Language of Architecture</i> : Program/Scale	
	Oct 31	A8 site selection / crits	A9 Issued
Week 10	Nov 05	A6 Presentations	A6 Due
	Nov 07	A6 Presentations	
Week 11	Nov 12	NO CLASS READING DAYS	
	Nov 14	NO CLASS READING DAYS	
Week 12	Nov 19	Seminar: Hara, <i>Designing Design</i> . Ch. 8 "What is Design?"	
	Nov 21	A8 crits	
Week 13	Nov 26	Seminar: Wang: "A New Paradigm for Design Studio Education"	
	Nov 28	A8 Crits	
Week 14	Dec 03	A8 crits	
	Dec 05	Discussion A8	A8 Due

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 the cost of project materials necessary to complete the design exercise assignments are to be incurred by students. Assignments are structured to minimize these costs however, they are contingent upon the student's creative design work and cannot therefore be precisely anticipated.

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>