

University of Calgary / Faculty of Environmental Design

EVDA 580/ARST 484 STUDIO 01 DESIGN THINKING

MTW*F, 14:00-18:00 (14:00-17:50)

Instructors: Catherine Hamel (coordinator), Josh Taron, Jodi James, Adam Onulov

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Room: PF - 2160 + studio 2130

CALENDAR DESCRIPTION

Foundation concepts in design and form making involving a sequence of progressive skill building, visual and spatial thinking and problem solving exercises.

ARCHITECTURAL HABITAT IN SITE ECOLOGIES

INTRODUCTION

Studio One Design Thinking engages multiscalar design problems through an iterative design process. Design is understood as a process of consciously evolving responses to interconnected contexts, problems and opportunities. These are identified and engaged through a series of proposals that require a diverse set of processes, means of expression and systems of exploration, communication and representation.

OBJECTIVES

1. To acquire a basic knowledge of the design process based on the relationship between critical thinking and design thinking as a means of translating complex bodies of knowledge into innovative design solutions.
2. To discover and challenge disciplinary norms in architectural design thinking, and develop methods for objectively questioning the relationships between form and behavior.
3. To acquire the knowledge to reveal intentions in architecture through the process of deconstruction and interpretation.
4. To acquire the understanding and skills to develop an analysis and interpretation of site and its related climatic, social, programmatic and other key contextual aspects as a precondition to intervention.
5. To develop individual and collaborative (interdisciplinary) skills in design process and representation.
6. To learn about and develop the ability to explore the inter-relationships between design, architecture and context.

TEACHING APPROACH

The course is studio based and as such, students will complete a series of projects that will be reviewed within the studio and serve as a basis for class discussion. As required by the specific projects, students may be working individually or in a group setting. Overall, students will be organized into 4 sections working on the same projects but through different pedagogical approaches. Projects are introduced by the entire teaching team, while design work in progress will be discussed through desk reviews. Each instructor will provide detailed project descriptions to guide their sections.

COURSE EXPECTATIONS AND MEANS OF EVALUATION

Students are expected to complete studio projects by the assigned date, pinned up and ready to start at the beginning of the scheduled class time. Students are expected to present their work to the group and to participate in class discussions. Evaluation of the studio projects forms 90% of the course grade, as outlined in the Content: Outline Course Descriptions, while a digital portfolio of the term work, handed in at the completion of the term, forms the final 10% of the student's mark. A "Fail" mark on the final studio project or a failure to submit the project portfolio will result in a "Fail" mark for the course. (A grade of C+ or lower indicates failure in a given assignment in accordance with the grading procedures of EVDS)

SCHEDULE :PROJECT CONTENT : WEIGHTING *(Subject to Adjustment)*

[Oct 15 – Oct 19] EVDS BLOCK WEEK 1 no Studio Classes

[Nov 12 _ Nov 16] Midterm break - BLOCK WEEK 2 no Studio Classes

Project 01 [Sept 07 – Oct 31] **MAKING: TOOLS AND TECHNIQUES** Pass/Fail

Students are required to have a PASS in Project One to get access to the EVDS Shop. The use of the shop is required to continue in the course. A fail in this assignment requires immediate consultation with the section instructor and head shop technician.

Project 02 [Sept 11 – Oct 02] **C-SPACE CUBES ACTIVATION PROJECT** 20%

Stitching Skins: Vertical Landscapes

Working in teams, through diagrams, drawings and physical models, using a high level of craft, students will design, assemble and install a component assembly to explore the relationship between time, materiality and material form.

Project 03 [Oct 03 – Oct 26] **SITE + PROGRAM** 25 %

Project 03_a

Observing Site: Mediating Contexts

Student groups discuss the fundamental aspects of a given site and come to an understanding of an overall vision of this context. Graphic and modelling strategies are utilized to explore the site as a complex, layered entity. This comprehensive site documentation is the basis for future project work.

Project 03_b

Border Transgressions: the partition is the program

Students will situate a conceptual underpinnings of a program for alternate users within the contextual forces they have documented. The result will be a small scale intervention situated on the site.

Project 04 [Oct 26 – Dec 11 TBC] **HABIT_AT: ALTERNATIVE MODES OF HOUSING** 45%

Building on the understanding developed on site and program in Project 03, a house scale habitat will be developed. The process will be divided into a number of interim reviews. The final project will clearly and thoroughly be represented by (but not limited to): plans, sections, elevations, perspectives, models, site, context, program, assembly, ...

Project 05 {Dec 14] **STUDIO MONOGRAPH** 10%

Each students will submit a graphically considered and edited compilation of process work and their final projects produced during the terms work (due post final reviews – specific due date to be determined in response to final review date)

At the discretion of the instructor, assignments submitted after the deadline **may** be penalized with the loss of a grade (e.g.: A- to B+) for each day late.

READINGS

Readings will be provided with detailed project handouts - (readings specific to each studio section may be provided separately)

GRADING SCALE

“Final grades will be reported as letter grades, with the final grade calculated according to the 4-point range.”

“Assignment(s) will be evaluated by percentage grades, with their letter grade equivalents as shown.”

Grade	Grade Point Value	4-Point Range	Percent	Description
A+	4.00	4.00	95-100	Outstanding - as 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	

Special Budgetary Requirements

Special budgetary requirements are limited to the optional purchase of course readings and, in specific courses, mandatory supplementary fees to cover certain expenditures, such as field trips. Mandatory supplementary fees must be approved by the University prior to implementation. Instructors are required to list and describe approved optional and mandatory supplementary fees for courses. This can include possible costs incurred for special materials, equipment, services, or travel. The \$150 supplemental fees for all studio courses is charged to cover workshop costs of use and maintenance of hand tools, assorted power tools, CNC routers, laser cutters, 3D printers, and robotics.

CACB STUDENT PERFORMANCE CRITERIA

The following CACB Student Performance Criteria will be covered in this course:

A1: Design Theories, Precedents, and Methods; A2: Design Skills; A3: Design Tools; A5: Site Context and Design; A8: Design Documentation; B1: Critical Thinking and Communication; B5: Ecological Systems

NOTES:

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.

Students are expected to complete all course assignments on time. There will be no final exam. Students must obtain an overall passing grade to pass this course, however, if a student fails any phase of the course worth 30% or more they will fail the course. A student who feels that a piece of graded term work (term paper, essay, test, etc.) has been unfairly graded may request to have the paper re-graded. The student shall discuss the work with the instructor within **fifteen days** of being notified of 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>

1. Written work, term assignments and other course related work may only be submitted by e-mail if prior permission to do so has been obtained from the course instructor. Submissions must come from an official University of Calgary (ucalgary) email account.

2. Academic Accommodations. Students who require 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 or the designated contact person in EVDS, Jennifer Taillefer (jtaillef@ucalgary.ca). Students who require an accommodation unrelated to their coursework or the requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience). For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/
3. Plagiarism - 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 (this includes having another impersonate the student or otherwise substituting the work of another for one's own in an examination or test),(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. It is recognized that clause (d) does not prevent a graduate student incorporating work previously done by him or her in a thesis. Any suspicion of plagiarism will be reported to the Dean, and dealt with as per the regulations in the University of Calgary Graduate Calendar.
4. Appeals: 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: <http://www.ucalgary.ca/provost/students/ombuds/appeals>
5. Information regarding the Freedom of Information and Protection of Privacy Act (<https://www.ucalgary.ca/legalservices/foip>)
6. Emergency Evacuation/Assembly Points (<http://www.ucalgary.ca/emergencyplan/assemblypoints>)
7. Safewalk information (<http://www.ucalgary.ca/security/safewalk>)
8. Contact Info for: Student Union (<https://www.su.ucalgary.ca/contact/>); Graduate Student representative(<https://gsa.ucalgary.ca/about-the-gsa/gsa-executive-board/>) Student Union Wellness Centre: <https://www.ucalgary.ca/wellnesscentre/>; Library Resources: <http://library.ucalgary.ca/> and Student Ombudsman's Office (<http://www.ucalgary.ca/ombuds/>).