

Faculty of Environmental Design / University of Calgary

EVDA 682.02 Intermediate Studio

Fall 2017 (Full course)

(Mondays), Tuesdays, (Wednesdays), and Fridays, 14:00-18:00 hrs.

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Rooms: PF-2160, TBD

(CROSS)SECTIONAL URBANISM

INTRODUCTION

Intermediate studio in Architecture is a third required studio in the Master of Architecture Program sequence and examines scalar, systemic, and material aspects of built ecologies. The course looks at material and technical complexities of the human environment and the impact that human constructs and infrastructures have on urban ecologies.

Urban environments change over time; as much as we intend to plan their development, they grow and change in somewhat unpredictable manner. Within the complex matrix of the city architects most often engage a project site or a building only. This leads to a city that is considered in parts and rarely as a whole. The studio's title, "cross-sectional urbanism", reflects this piecemeal condition but it also – if understood as a way to probe the site – points at the range and multiplicity of possibilities that such an approach might engender, especially if it engages critically and creatively the conditions it is producing. This studio, therefore, examines conditions and forces that influence and shape programmatic, spatial and formal expression of the city to create social and cultural conditions of the place. In the context of the studio the students will propose a variety of programmatic combinations (within a given program matrix) over a series of connected sites that form an urban artery. Acting simultaneously on each site, with a different program and a different design agenda, the students will have to negotiate or contest new territories that emerge as each segment of the larger site is activated. No site is isolated and every project has capacity to affect not only its immediate neighbors but also a larger territory. Our interest is focused on exposing forces that shape cities and buildings.

Other courses will also focus on buildings as reflexive ecological constructs produced within dynamic systems at multiple scales. The following topics will be introduced conceptually during the semester: materials and assemblies, structural systems, medium sized building typologies, and building service systems. This course operates with other courses during the semester including EVDA 613: Structures for Architects I, EVDA 617: Architectural Lighting Design, and EVDA 621: Introduction to Design Theories. The work in the studio course is closely related to the topics discussed in the Introduction to Design Theories course; it is integrated, in the second half of the semester, with a last assignment in the Structures for Architects I course.

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

Primary Level: A2: Design Skills; A3: Design Tools; A4: Program Analysis; A5: Site Context and Design; A8: Design Documentation

Secondary Level: A6: Urban Design; B5: Ecological Systems; C1: Regulatory Systems; C2: Materials; C3: Structural Systems; C4 Envelope Systems;

B4: Sustainable Design; B7: Structural Systems; B11: Building Materials and Assemblies.

Note: students entering M1 from other institutions are required to take the Workshop Skills course.

OBJECTIVES

1. To develop design skills through the design of a medium sized project with a complex program.
2. To develop introductory knowledge of programming, materials and assemblies, building systems, and structural concepts.
3. To develop site design, graphics, concept design, and design development skills.
4. To understand the concept that buildings themselves are ecological systems that participate in larger ecologies (flow systems), and to understand the role that technology plays in this interface.

TEACHING APPROACH

In this studio there will be four sections, each covering the same basic material, but through different pedagogical approaches (students will have the opportunity to select their section during the first class). Each instructor will provide detailed project descriptions throughout the semester. Guidance and feedback will be provided during regular desk crits, informal lectures, and formal reviews. The work will be done individually, with some research work done in small groups. The studio will be process oriented, allowing students some latitude in developing their own design methodologies.

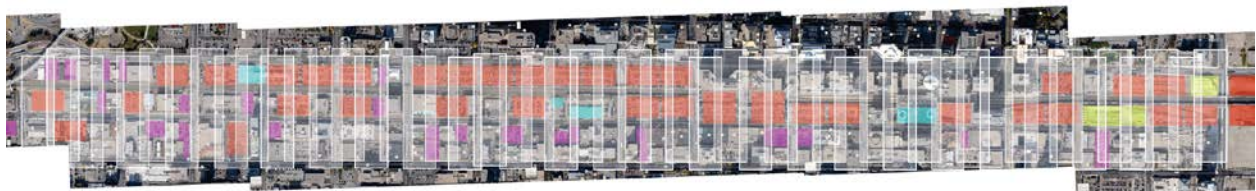
PROGRAM

Students will design a medium sized, multi-purpose urban facility of approximately 20,000 m². The program includes the mix of generic (30-60%), unique (20-40%), infrastructural/commercial (0%-60%), and public program (10-40%). The projects will not share a common program but rather subscribe to a common matrix from which each student will develop their own unique program. The program mix is site specific and depends on the zoning designation for each site, although students will have considerable flexibility to define their own program within zoning rules. Students will have to understand the zoning code and work with (or around) it to generate their programmatic mix. Possible programs are listed in the table and the program mix will be decided by each student and in consultation with the studio instructor. We will conduct a zoning charrette to familiarize students with the zoning bylaws and their limitations and the opportunities they offer. When generating the program mix, however, students should also think about the program as a way to activate the space of the city.

GENERIC 30%-60%	UNIQUE 20%-40%	INFRASTRUCTURAL/ COMMERCIAL 0%-60%	PUBLIC (outdoor/ indoor) 10%-40%
Residential (CC-X)	Cultural (CC-X)	Light industrial (CC-X)	Natural Area (S-CRI)
Office (CC-X)	Recreational (CC-X)	Recycling/Waste Manag. (S-CRI) (CC-X)	Outdoor Recreation (S-CRI)
Medical (CC-X)	Market (CC-X)	Power generation (wind) (S-CRI) (CC-X)	Indoor Recreation (CC-X)
Hotel (CC-X)	Entertainment (CC-X)	Waste Disposal (S-CRI)	Park (CC-X) (S-CRI)
	Educational (S-CRI)	Transportation (S-CRI)	Tree Farm (S-CRI)
	Place of Worship (CC-X)		
		Market (CC-X)	
		Retail (CC-X)	

SITE

The studio site is a series of cross sectional segments (adjacent sites) along the 10 Avenue (SW) corridor located south of the CP railway that cuts through the downtown area. As mentioned earlier, the cross-sectional aspect of the site could be understood as a way to probe the site and uncover or realize various possibilities that this way of interrogating the space of the city might engender. No site is isolated and every project has capacity to affect not only its immediate neighbors but also a larger territory.



Each student will be assigned one site and will build his or her site model that will be assembled into a larger site model of the entire 10th Avenue corridor. The sites will be assigned in the second week of the studio. Detailed instructions for the site model will be given to all sections. Due to the nature of the project students can choose to engage projects developed near or further around their site regardless of the studio section their neighbors are in. The sectional development of the city embedded in the structure of the studio, where individual student is considering only one section of the 10 Avenue corridor, will expose that each project affects its surroundings and the larger whole, but perhaps not in a cohesive, coherent or strategic way.

COURSE EXPECTATIONS, MEANS OF EVALUATION AND SCHEDULE

Students are expected to complete all assignments, be present in studio on Tuesdays and Fridays (and on other studio days as required), and attend all lectures and reviews. Students will also be expected to read any assigned readings. Detailed project descriptions will be provided throughout the term by studio instructors. The following is the overall studio schedule and the general breakdown of assignments:

Phase 1	Research, Site Analysis/Planning, Programming, Design Concept Basic hand and machine tool exercises. Tuesday, September 13 – Friday, October 7 (4 weeks) REVIEW: Friday October 7	30%
Block Week	October 11-16	
Phase 2	Design Development Friday, October 7 – Tuesday, November 8 (3.5 weeks) REVIEW: Tuesday November 8	20%
Phase 3	Structures Charrette Tuesday, November 8 – Friday, November 18 (1 week) REVIEW: Friday November 18	10%
Reading Days	November 10-13	
Phase 4	Final Design and Presentation Friday, November 18 – Friday, December 9 (3.5 weeks) Final Review: Date to be determined	30%
Phase 5	Final Portfolio, Date to be determined Depends on the final review date	10%

GRADING SCALE

The following equivalencies (the University of Calgary has no official percentage scale system) will be used in calculating grades: A+ (95.0-100.0); A (90.0-94.99); A- (85-89.99); B+ (80.0-84.99); B (75.0-79.99); B- (70.0-74.99); C+ (65.0-69.99); C (60.0-64.99); C- (55.0-59.99); D+ (50.0-55.99); D (45.0-49.99); F (0-44.99).

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

Refer to detailed project handouts and EVDA 621 Course Reader. Readings specific to each studio section will be provided separately.

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.

The University has approved supplemental fee for this course of \$150.00.

NOTES

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. Information regarding the Freedom of Information and Protection of Privacy Act (<http://www.ucalgary.ca/secretariat/privacy>) and how this impacts the receipt and delivery of course material
5. Emergency Evacuation/Assembly Points (<http://www.ucalgary.ca/emergencyplan/assemblypoints>)
6. Safewalk information (<http://www.ucalgary.ca/security/safewalk>)
7. Contact Info for: Student Union (<https://www.su.ucalgary.ca/contact>); Graduate Student representative(<http://www.ucalgary.ca/gsa/>) and Student Ombudsman's Office (<http://www.ucalgary.ca/ombuds/>).
8. 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.
9. 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>