

Faculty of Environmental Design / University of Calgary

EVDA 682.02 Intermediate Studio

Fall 2018 (Full course)

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

Instructors: Dr. Branko Kolarevic, branko.kolarevic@ucalgary.ca

Jesse Andjelic

Tony Leong

Alan Collyer

Prof. Marc Boutin, boutin@ucalgary.ca, coordinator

Room: PF-2165

AUGMENTING URBAN ECOLOGIES

INTRODUCTION

This course is the third studio in the Master of Architecture Program sequence and examines scalar, systemic, and material aspects of ecosystems by addressing the design of a medium sized multi-purpose urban facility (20,000 m²). The program for the studio includes office (30-50%), culture (30-50%), commercial (10-20%), and public space (5-10%).

The impact that human constructions and infrastructures have had, and continue to have, on global ecosystems (and vice versa) requires a comprehensive understanding of the material and technical complexity of built environments in order to reduce the consumption of vital resources and to respond to various environmental, social, cultural, and technical challenges. The project sites for the term will be determined by individual instructors and will involve urban contexts.

Courses during this semester 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 environmental 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 following CACB Student Performance Criteria will be covered in this course:

Primary Level: A3: Graphic Skills; B1: Design Skills; B2: Program Preparation; B3: Site Design; B4: Sustainable Design; C1: Detailed Design Development.

Secondary Level: B7: Structural Systems; B9: Building Envelopes; B11: Building Materials and Assemblies; C2: Building Systems Integration.

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, and to understand the role that architecture 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. 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 for the studio project includes office (30-50%), culture (30-50%), commercial (10-20%), and public space (5-10%). The relative mix and delineation of program will be determined through the site analysis and interpretation phase of the project; the program understood as a critical catalyst for the site.

SITE

The studio site is the territory between 9th and 10th Avenue between 2nd and 16th Street SW. This area is a veritable laboratory of urban issues as it includes dense downtown fabric, brown field residual space, recreational spaces, street wall residential and mixed-use fabric, and large infrastructural constructs. Each individual studio instructor will determine how the site will be analyzed, interpreted and responded to by their students.

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/Interpretation, Programming, Design Concept Tuesday, September 11 – Friday, October 5 (4 weeks) REVIEW: Friday October 5	30%
Block Week	October 8-12	
Phase 2	Design Development, Materials, Assemblies, Environmental Systems Tuesday, October 16 – Friday, November 9 (4 weeks) REVIEW: Friday November 9	20%
Reading Days	November 12-16	
Phase 3	Structures Charrette Tuesday, November 20 – Tuesday, November 27 (1 week) REVIEW: Tuesday November 27	10%
Phase 4	Final Design and Presentation Tuesday, November 27 – Tuesday, December 11 (2 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 with readings specific to each studio section 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 (itaillef@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>