

# *Environmental* **DESIGN**

architecture + landscape architecture + planning

University of Calgary / Faculty of Environmental Design

## COMPUTER MODELLING FOR URBAN DESIGN

EVDP 602 H(2-2T)

**Lecture 1** M 8:40-10:40 / **Lab 1** M 10:50-12:50 / PF 2170 (C. Gulinao)

**Lecture 2** M 8:40-10:40 / **Lab 2** M 10:50-12:50 / PF 2165 (N. Wagenaar)

*Corequisite: EVDP 625 Site Planning Studio*

### Instructors:

Chris Gulinao (MPlan), gulinaoc@ucalgary.ca

Nathaniel Wagenaar (MArch), nathaniel.wagenaar@ucalgary.ca

Fall 2018

### Teaching Assistants:

Juan Castillo (MEDes), juan.castillo1@ucalgary.ca

Jackson Brandt (MLA), jackson.brandt@ucalgary.ca

Janu Raj (MPlan), janu.raj@ucalgary.ca

### Introduction + Teaching Approach

In this course, students will be introduced to various computer software including; Adobe Creative Suite, AutoCAD, SketchUp, as well as various graphic communication methods and approaches. Emphasis will be given to developing an adept understanding of software applications appropriate to communicating urban/natural form, process, and design thinking.

Each lecture will be focused on introducing a software and the relevant application of it, a technical review, and ideally, a brief discussion on general topics in graphics (e.g. typography, color theory, composition, layout, etc).

This course will allow students to explore multiple graphic representation and visual communication techniques that are used to successfully deliver concepts and ideas to an audience. The term lectures and lab sessions will introduce a variety of software applications used by design professionals in planning, urban design, and landscape architecture. The course will take students through different software applications each week, with four main assignments that correlate to EVDP 625 Site Planning Studio.

### Objectives + Course Learning Outcomes

- To understand the principles behind effective graphic communication in planning, landscape architecture, and urban design;
- To increase and develop students' awareness of a wide range of software used to deliver and communicate ideas graphically from site analysis to final site design;
- To develop an understanding of software applications that are appropriate to communicating specific ideas in all stages of a project;
- To develop skills in software applications that are used in professional practice in planning, landscape architecture and urban design;
- To develop communicative and iterative design thinking, approaches and methods in planning, landscape architecture and urban design.

## Class Schedule

LEC 1 / September 10, 2018

INTRODUCTION TO COURSE + URBAN DESIGN GRAPHICS/SOFTWARE  
INTRODUCTION TO PHOTOSHOP / INTRODUCTION TO ASSIGNMENT 1 & 4 (URBAN DIAGRAMMING + PERSONAL PORTFOLIO)

LEC 2 / September 17, 2018

INTRODUCTION TO ILLUSTRATOR

LEC 3 / September 24, 2018

INTRODUCTION TO INDESIGN

LEC 4 / October 1, 2018

**ASSIGNMENT 1 DUE / PIN UP + PRESENTATIONS AT 9:00 AM**

October 8, 2018 - THANKSGIVING DAY / NO CLASSES

October 15-19, 2018 – EVDS BLOCK WEEK / NO CLASSES

LEC 5 / October 22, 2018

INTRODUCTION TO AUTOCAD

LEC 6 / October 29, 2018

INTRODUCTION TO AUTOCAD II / INTRODUCTION TO ASSIGNMENT 2A (SITE MODELLING)

LEC 7 / November 5, 2018

INTRODUCTION TO SKETCHUP/3D MODELLING INTRODUCTION TO ASSIGNMENT 2B (SITE MODELLING)

November 12-16, 2018 - FALL BREAK / NO CLASSES

LEC 8 / November 19, 2018

**ASSIGNMENT 2 DUE VIA D2L BY 11:59 PM** / INTRODUCTION TO RENDERING STYLES I /  
INTRODUCTION TO ASSIGNMENT 3 (GRAPHIC COMPOSITION)

LEC 9 / November 26, 2018

INTRODUCTION TO RENDERING/GRAPHIC STYLES II – OPEN STUDIO

LEC 10 / December 3, 2018

**ASSIGNMENT 3 DUE / PIN UP + PRESENTATION AT 9:00 AM / LAST CLASS**

December 13, 2018

**ASSIGNMENT 4 DUE / DIGITAL SUBMISSION VIA D2L BY 11:59 PM**

## Means of Evaluation

The course evaluation will be determined on the assignments completed during the term, which includes computer graphics and modelling, presentation of work, and a portfolio compilation of work completed throughout the semester. There will be no final examination.

- Assignment 1: Urban Diagramming (Due Oct 1) 25%
- Assignment 2: Site Modelling (Due Nov 19) 30%
- Assignment 3: Graphic Composition (Due Dec 3) 30%
- Assignment 4: Personal Portfolio (Due Dec 13) 15%

**Total** **100%**

## Grading Scale

Final grades will be reported as letter grades, with the final grades calculated according to the 4-point range. All assignments will be evaluated by percentage grades, with their letter grade equivalents as shown.

Grade	Grade Point Value	4-Point Range	Percentage	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
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.

**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](mailto: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/](http://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](http://www.ucalgary.ca/secretariat/privacy)) and how this impacts the receipt and delivery of course material
5. Emergency Evacuation/Assembly Point (<http://www.ucalgary.ca/emergencyplan/assemblypoints>)
6. Safewalk information (<http://www.ucalgary.ca/security/safewalk>)
7. Contact Info for: Student Union ([http://www.su.ucalgary.ca/page/affordability-accessibility/ contact](http://www.su.ucalgary.ca/page/affordability-accessibility/contact)); Graduate Student representative(<http://www.ucalgary.ca/gsa/>) and Student Ombudsman's Office (<http://www.su.ucalgary.ca/page/quality-education/academic-services/student-rights>).