UNIVERSITY OF CALGARY
SCHOOL OF ARCHITECTURE, PLANNING AND LANDSCAPE

Course Title: Computer Modeling for Urban Design			
Course Number	EVDP602		
Pre/Co-Requisites	EVDP625		
Instructor Name	Tawab Hlimi Nathaniel Wagenaar	Instructor Email	tawab.hlimi@ucalgary.ca nathaniel.wagenaar@ucalgary.ca
Office Location	PF3190		
TA Name	Melinda Lobo	TA Email	melinda.lobo1@ucalgary.ca
Class Dates	Fall 2019, Tuesdays		
Class Times	9:00am to 11:00am (Lecture) 11:00am to 1:00pm (Lab)		
Class Location	PF 2165, PF2170		

Course Information / Description of the Course

Through a series of lectures, tutorials, assignments, and reviews, this course will introduce students to visual and/or design communication in the fields of planning and landscape architecture, with an emphasis on digital drawing. The primary course objective is the cultivation of a drawing practice that is capable of effectively communicating spatial and conceptual design ideas through conventional planning and architectural design drawings, and diagrams. Course assignments are coordinated with EVDP625 Site Planning Studio.

Learning Resources

Recommended readings, textbooks and learning materials:

- Ching, Francis D. K., and Steven P. Juroszek. *Design Drawing*. John Wiley & Sons, 2010. (e-book at TFDL)
- Jacobs, Allan. *Great Streets*. Cambridge, MA. MIT Press, 1995.

- Jacobs, Allan B., et al. *The Boulevard Book : History, Evolution, Design of Multiway Boulevards*. 2002.
- Lynch, Kevin, and Joint Center for Urban Studies. *The Image of the City*. MIT Press, 1960.
- Sullivan, Chip. *Drawing the Landscape*. John Wiley & Sons, 2014.

Technology requirements:

D2L will serve as the primary course interface between instructors and students. Materials such as course outlines and assignments will be posted on D2L, and student assignment submissions must be uploaded to D2L before specified deadlines. Students are responsible for accessing this information. Some course materials will only be available on D2L and will not be provided as hard copies.

Course Learning Outcomes

At the end of this course, students will:

1. Be familiar with the creative synergies or work flows between digital (computer) and analog (hand) drawings.
2. Be aware of the capabilities of various software in design drawing and compatibilities between the various software (work flow).
3. Develop critical thinking in effectively conveying design ideas through design drawings.
4. Develop a graphic aesthetic sensibility.
5. Understand that design drawings are a medium of communication.

Assessment Components

Assessment Method	Description	Weight	Aligned Course Learning Outcome
Progress and Review	A1	35%	1,2,3,4,5
Progress and Review	A2	25%	1,2,3,4,5
Progress and Review	A3	40%	1,2,3,4,5

Assessment and Evaluation Information

The course evaluation will be based on the assignments completed during the term. While the final product is important, equally important is the student's consistent and productive engagement in the design process, assessed through engagement through attendance and participation in lectures, tutorials, work sessions, and critiques/reviews. Late pinning up of work for studio reviews and/or late submission of work on D2L is not acceptable and will be subject to a deduction of one letter grade per late day. For example an A will be downgraded

to an A-. Although work completed in a group or pair shall normally receive a common grade, the instructor reserves the right to evaluate students individually, if it appears that the work has been distributed unequally. Each component of the course must be completed and a passing grade of B- must be achieved on all assignments worth 20% or more in order to pass the course as a whole. There will be no final examination.

Evaluation Breakdown

Project 1: Multiview Drawings and Diagrams @35%
Project 2: Axonometric Projection and Physical Modeling @25%
Project 3: Perspective Projection and Digital Modeling @40%

Total 100%

Grading Scale

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.

Topic Areas & Detailed Class Schedule

Course Schedule Date	Topic ***L: Lecture*** ***T: Tutorial*** ***R: Review***	Assignments/Due Dates/Notes ***A: Assignment***
Sept. 10	**Course Intro.** **L1: Multiview Drawings and Diagrams – Plan, Section, Elevation** **T1:** Intro to AutoCAD and Illustrator	**A1 Intro**. Guest Lecture by Peter Peller From TFDL Map Library (SANDS)
Sept. 17	**L2: Diagrams** **T2:** Illustrator **R:** Review of Plan, Section, Elevation Drawings	
Sept. 24	**L3: Raster Graphics** **T3:** Photoshop **R:** Review of Diagrams	
Oct. 1	**L4**: **Layout** **T4:** InDesign	
Oct. 8	**L5: Axonometric Drawing** **T4A:** AutoCAD 2	**A1 Due Oct. 7** in correlation with EVDP625 **A2 Intro.**
Oct. 15	**T4B:** AutoCAD 3 **R:** Review of Axonometric Drawing/Physical Model	
Oct. 22	No classes / SAPL Block Week	
Oct. 29	**L5: Digital Model** **T5:** SketchUp 1	**A2 Due Oct. 30** in correlation with EVDP625 **A3 Intro.**
Nov. 5	**L6: Perspective Drawing** **T6:** 1-Point and 2-Point Perspectives	
Nov. 12	No classes – term break	
Nov. 19	**L7: Rendering** **T7:** SketchUp 2	
Nov. 26	**L8: Presentation Drawing**	
Dec. 3	**Review Session**	**A3 Due Dec. 11** in correlation with EVDP625

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.

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) can be found here:
https://www.ucalgary.ca/registrar/registration/course-outlines