



UNIVERSITY OF CALGARY
SCHOOL OF ARCHITECTURE,
PLANNING AND LANDSCAPE

Course Number	PLAN 602 - <i>Fall 2022</i>	Classroom	PF 2165, Computer Lab
Course Name	Computer Modeling for Urban Design		
Instructors	Justin Bhatia, <i>justin.bhatia1@ucalgary.ca</i> Connor MacDonald, <i>connor.macdonald1@ucalgary.ca</i>		
Phone	(587) 984-7507		
Class Dates	Thursdays, 9:00am - 1:00pm, Mandatory In-Person		
Office Hours	By Appointment		
Teaching Assistants	Alima Pal, <i>alima.pal@ucalgary.ca</i> Mona Meschi, <i>mona.meschi@ucalgary.ca</i>		
Course Hours	3 Units, (2-1Tutorial)		

Course Description

Through a series of lectures, tutorials, assignments, and reviews, this course will introduce students to the representation of spatial and conceptual design ideas/thinking in the fields of planning and landscape architecture, primarily through the medium of digital drawing. The course will emphasize both established conventions of spatial representation such as standard drawing and graphic types and their conventional applications, and the continuously evolving repertoire of digital tools (software) through which drawings are produced today.

Furthermore, the linkage to PLAN606 Site Planning Studio will highlight the critical connection between spatial representation and digital workflows, and design process, practice, and theory in landscape architecture and planning. Course assignments are coordinated with PLAN606 Site Planning Studio.

Course Learning Outcomes

In order to successfully engage in their learning experiences at the University of Calgary, students are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates.

Course Learning Outcomes

1. Be familiar with design drawing types and their respective capabilities in design communication.
2. Be aware of the capabilities of various software in design communication, standard workflows across software, and the correlations between digital workflows and design processes.
3. Develop a sensibility in effectively communicating design ideas through design drawings.
4. Understand that design drawings are fundamentally a medium of visual communication and instruction.

Assessment Method	Description	Weight
Progress and Review	Project 1 <i>Plan, Section and Elevation Drawings</i>	35%
Progress and Review	Project 2 <i>Isometric and Oblique Drawings</i>	25%
Progress and Review	Project 3 <i>Perspective Drawings</i>	40%

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.

Attendance and Participation Expectations

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 presentation of work on scheduled Zoom classes 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.

Students are expected to be in attendance for the entirety of all lectures, assignment presentations and reviews.

Grading Scale

A+	4.00	4.00	95-100	Outstanding
A	4.00	3.85-4.00	90-94.99	Excellent
A-	3.70	3.50-3.84	85-89.99	Very Good
B+	3.30	3.15-3.49	80-84.99	Good
B	3.00	2.85-3.14	75-79.99	Satisfactory
B-	2.70	2.50-2.84	70-74.99	Minimum Pass
C+	2.30	2.15-2.49	65-69.99	Indicative of Failure
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	

Topic Areas & Class Schedule

Course Schedule Dates	Topic	Project Due Dates
Sept. 6-9 Class Date: Sept. 8	Course Intro, Single View Drawings L1: Single View Drawings T1: AutoCAD - Basics, Navigating Drawings T2: AutoCAD - Setting Up Model & Paper Space T3: AutoCAD - Printing Page Layout - To Illustrator T3.5: Google Earth	
Sept. 12-16 Class Date: Sept. 15	Diagrams L2: Diagrams T4: AutoCAD - Basic Geometry Tools T5: AutoCAD to Adobe Illustrator T6: Photoshop - Photo Adjustment Basics	
Sept. 19-23 Class Date: Sept. 22	Layout L3: Layout T7: InDesign - Basic Tools R1: Redline Review of Student Plans, Sections, Elevations	
Sept. 26-30 Class Date: Sept. 29	Multiview Drawings: Isometric and Oblique Part 1 L4: Multiview Drawings T8: Introduction to 3D Modeling T9: Sketchup - Basic Tools	Project 1 Due Sept. 26, Midnight
Oct. 3-7	BLOCK WEEK	
Oct. 10-14 Class Date: Oct. 13	Let's Get Physical / Digital - Models L5: Physical / Digital Models T10: Views in 3D Modeling T11: Sketchup to Adobe Illustrator R2: Redline Review of Student Isometric, Obliques	
Oct. 17-21 Class Date: Oct. 20	Bird's Eye Views and Perspective Drawings L6: 1 & 2 Point Perspective Drawings T12: Establishing 3D Model Views T13: Sketchup Rendering T14: Sketchup to Render Process	Project 2 Due Oct. 20, Midnight

Oct. 24-28	Plan & Perspective Renderings	
Class Date: Oct. 27	L7: Perspective Drawings 2 T15: Adjustment Tools in Photoshop T16: Entourage Materials in Photoshop	
Oct. 31-Nov. 4	Rendering Programs	
Class Date: Nov. 3	L8: Presentation Drawings T17: Lumion	
Nov. 7-Nov. 11	FALL READING BREAK	
Nov. 14-Nov. 18	Photoshop & Rendering	
Class Date: Nov. 17	T18: Additional Rendering Tools T19: Rendering into Photoshop	
Nov. 21-Nov. 25	Photoshop and Rendering - Part 2	
Class Date: Nov. 24	T20: Finalizing Rendered Work in Photoshop T21: Render Software Basics	
Nov. 28-Dec. 2	Representing Your Work	
Class Date: Dec. 1	T22: Organizing InDesign T23: Presenting Your Work	
Dec. 5-Dec. 9	Class Closeout - Final Redline Review	Project 3 Due
Class Date: Dec. 8	R3: Redline Review T24: Responding to Remaining Questions	Dec. 12, Midnight

Learning Resources - Suggested Texts

- 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.
- Frederick, M., Mehta, V., 2018. 101 Things I learned in urban design school. Three Rivers Press.
- Waldheim, C., Desimini, J., & Mostafavi, M., 2016. Cartographic Grounds: Projecting the Landscape Imaginary. Princeton Architectural Press.
- Reid, G. W., 1987. Landscape Graphics: From concept sketch to presentation rendering. Witney Library of Design.
- Lynch, K., 1979. The image of the city. Cambridge, Mass.: MIT Press.

University of Calgary Policies and Supports

COVID-19 PROCEDURE FOR SICK STUDENTS: <https://ucalgary.ca/risk/sites/default/files/Covid-19%20Folder/COVID-19-Procedure-for-Sick-Students.pdf>

ACADEMIC ACCOMMODATION

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf

Students needing 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 (contact information on first page above).

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/.

ACADEMIC MISCONDUCT

Academic Misconduct refers to student behavior which compromises proper assessment of a student's academic activities and includes: cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor's expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.

For information on the Student Academic Misconduct Policy and Procedure please visit:

<https://ucalgary.ca/policies/files/policies/student-academic-misconduct-policy.pdf>

<https://ucalgary.ca/policies/files/policies/student-academic-misconduct-procedure.pdf>

Additional information is available on the Academic Integrity Website

at <https://ucalgary.ca/student-services/student-success/learning/academic-integrity>.

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 (<https://www.ucalgary.ca/pubs/calendar/current/k.html>).

INSTRUCTOR INTELLECTUAL PROPERTY

Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

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.

SEXUAL VIOLENCE POLICY

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. The University of Calgary's sexual violence policy guides us in how we respond to incidents of sexual violence, including supports available to those who have experienced or witnessed sexual violence, or those who are alleged to have committed sexual violence. It provides clear response procedures and timelines, defines complex concepts, and addresses incidents that occur off-campus in certain circumstances. Please see the policy available at <https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>

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://www.ucalgary.ca/secretariat/student-appeals>

OTHER IMPORTANT INFORMATION

Please visit the Registrar's website at:

<https://www.ucalgary.ca/registrar/registration/course-outlines> for additional important information on the following:

- Wellness and Mental Health Resources
- Student Success
- Student Ombuds Office
- Student Union (SU) Information
- Graduate Students' Association (GSA) Information
- Emergency Evacuation/Assembly Points
- Safewalk