UNIVERSITY OF CALGARY
SCHOOL OF ARCHITECTURE,
PLANNING AND LANDSCAPE

Fall 2023

Course Number	PLAN 602	Classroom	PF to be scheduled by SAPL
Course Name	Computer Modelling for Urban Design		
dPre/Co-Requisites			
Instructors	Justin Bhatia Zoe Crandall	**Office Hours/Location**	Virtual, by appointment
	Email: justin.bhatia1@ucalgary.ca, zoe.crandall@ucalgary.ca	**Phone: all correspondence is to take place by email**	
Class Dates	Mandatory in-person: e.g. Thursdays 9am to 1 pm September 7 to November 30.		
Instructor Email Policy	Please note that all course communications must occur through your @ucalgary email. All emails should be addressed to both instructors and replies shall be "Reply All". Instructors shall respond to emails sent via student's @ucalgary emails within 72 hours.		
Name and Email of Teaching Assistant(s)	Harjee Singh: Harjee.singh@ucalgary.ca Nissmah Atif: Nissmah.afif@ucalgary.ca		

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, using a variety of industry standard software. 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.

Emphasis is given to equipping students with the necessary skills to communicate their ideas clearly using visual communication strategies (drawings and graphics). Students will develop an understanding of different types of drawings and their use, how to create presentation graphics, and how to develop and communicate design narratives through graphic techniques and layouts.

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

Assignments are intended to provide students with the necessary skills to succeed in PLAN 606. This course is tailored for those with minimal knowledge of industry standard design software. This course may not be repeated for credit.

Course Hours: e.g. 3 units;

Course Learning Outcomes:
Upon completion of this course, students will know and be able to:

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.

Learning Resources:
Support materials will be provided in lectures and tutorials as necessary.

Technology requirements (D2L etc.):
In order to successfully engage in their learning experiences at the University of Calgary, and SAPL students should refer to to https://sapl.ucalgary.ca/current-students/resources/laptop-software **for laptop requirements.**

An external mouse is strongly recommended. Students who chose not to use an external mouse will be responsible for learning necessary software techniques using a track pad themselves. Instructors are not required to demonstrate software using a track pad.

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.

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

Each student is expected to produce their own work. Reusing other students' drawings will result in a resubmittal of the assignment or a failing grade for the assignment.

Note: 3D context models can be shared among students, but the intervention / design / graphic interpretations must be individual. Students are expected and encouraged to support each other and share knowledge. Those with advanced graphic skills should make them selves available to those without, and those with other skills should reciprocate as needed. In these professions we learn form each other.

Workshop Safety Training Requirement

If a course requires the use of the SAPL workshop, students must complete all online University of Calgary safety courses, the online Trajectory safety training course, as well as in-person workshop training and a grade of pass on the final evaluation project, to be granted access to the SAPL workshop. This training is offered once a year, around the start of the Fall term and has a completion deadline.

Assessment Components:

Assessment Method	Description	Weight	Aligned Course Learning Outcome
Assignment 1	Plan Drawings	23%	1 – 4
Assignment 2	Section & Elevation Drawings	22%	1 – 4
Assignment 3	Plan & Conceptual Diagrams	20%	1 – 4
Assignment 4	Axonometric & Isometric Diagrams	20%	1 – 4
Assignment 5	Perspective Renderings & Project Cut Sheet	15%	1 – 4

Guidelines for Submitting Assignments:

All assignments shall be uploaded to D2L by 11:59pm on the assignment Due Date.

For assignments 1 – 4, students may resubmit assignment within 1 week of receiving assignment assessment for an upgrade of one letter grade. For example, if a student receives a B, they may resubmit and receive a B+. Only those assignments that show improvement,

respond to assessment feedback, and indicate the student has progressed their skills will receive a bump in grade. Resubmittal of assignment does not guarantee a bump in grade. There will be no resubmittal of Assignment 5.

Final Examinations:

There is no final exam for this course.

Expectations for Writing (https://www.ucalgary.ca/pubs/calendar/current/e-2.html):

Late Assignments:

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.

Criteria that must be met to pass:

Students must submit all assignments and receive a cumulative grade of B- or higher to pass this course.
Students with extensive experience with design software covered in this course may be eligible to waive the course. Students who wish to waive the course will need to prove adequate skills as assessed by the faculty and teaching team. Students wishing to waive the course need to discuss the matter with their associate dean ASAP.

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

The School of Architecture, Planning and Landscape will not permit the Flexible Grade Option (CG Grade) for any course offered by the School.
https://www.ucalgary.ca/pubs/calendar/current/f-1-3.html

Topic Areas & Detailed Class Schedule

Course Schedule Date	Topic	Assignments/Due Dates
Sept 7	**Base Plans** AutoCAD 1	
Sept 14	**Plan Drawings & Diagrams** Verifying Existing Conditions AutoCAD 2 Photoshop 1 InDesign 1	
Sept 21	**Sections & Elevations** AutoCAD 3 Illustrator 1 Photoshop 2	Assignment 1: Plan Drawings Due
Sept 28	**Layout** InDesign 2 Photoshop 3	Assignment 2: Section & Elevation Drawings Due
Oct 5	**Diagrams** Illustrator 2 Photoshop 4	
Monday October 9	Thanksgiving Holiday	
Oct 12	**Diagrams cont.** Illustrator 3 Photoshop 5	

Oct 16		Assignment 3: Plan & Conceptual Diagrams Due
Oct 17	Plotting Tutorial* Note tutorial is outside of regular lecture hours	
Oct 19	Perspectives Axonometric / Isometric Drawings Sketchup 1	
Oct 26	3D Modelling Rhino 1	
Nov 2	3D Modelling & Intro to Rendering Software Sketchup 2 Twin Motion	
Nov 3		Assignment 4: Isometric / Axonometric Diagrams Due
Nov 6 - 10	Fall SAPL Block week	
Nov 12 – 18	Fall Term Break	
Nov 13	Remembrance Day Observed	
Nov 23	Renderings Photoshop 6	
Nov 30	Finishing Touches & Final Layouts	
Dec 7		Assignment 5: Perspective Renderings & Project Cut Sheet Due
Indicate the following dates: • If applicable, dates, times and locations of all approved class activities scheduled outside of regular course hours		

University of Calgary Policies and Supports
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/university-policies-procedures/student-accommodation-policy

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:https://www.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://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-policy
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 (https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy) 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 AND GENDER-BASED 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/legal-services/university-policies-procedures/sexual-and-gender-based-violence-policy .

UNIVERSITY STUDENT APPEALS OFFICE

If a student has a concern about a grade that they have received, they should refer to Section I of the Undergraduate Calendar (https://www.ucalgary.ca/pubs/calendar/current/i-3.html) which describes how to have a grade reappraised. In addition, the student should refer to the SAPL's Procedure for reappraisal of grades

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