



Graphics Workshop II

EVDA 543 / ARST 453 . H(0-8) . Winter 2021

Instructors

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Days and Times

Mondays + Wednesdays

08:40 – 12:50

Course Description

Graphics Workshop II expands on the foundational techniques introduced in Graphics I. The course works to build skill in modelling, visualization, and technical documentation, with a special emphasis on digital, information-driven workflows. Graphics II aims to build technical competency and intuition across a range of platforms, engaging students in contemporary modes of architectural production, analysis, and representation.

CACB Student Performance Criteria

At a primary level: A3 – Graphics Skills, C3 – Technical Documentation.

At a secondary level: B1 – Design Skills.

Course Objectives

Technique

Students will produce outputs that demonstrate proficiency in the use of design tools and awareness of how these tools can work together to produce design workflows.

Information

Students will produce outputs that are precise and show an appropriate amount of detail for their context.

Communication

Students will produce and present graphic and built outputs that demonstrate sensitivity to tone, hierarchy, the organization of pieces, and project narrative.

Craft & Completeness

Students will produce well-crafted outputs that demonstrate an attention to detail, material, and presentation.

Teaching Approach

The class will meet twice weekly for a mix of lecture, in-class activities, tutorials, and reviews. Lectures, reviews, new assignments, and discussion will usually happen on Mondays, and tutorials and workshops will usually happen on Wednesdays.

Textbooks, Equipment, and Software

No textbooks are required for this class. Occasional readings may be assigned and PDFs will be made available. Students are expected to have their own laptop computers. Required software is listed below (additional plugins / software, as necessary, may be integrated into some exercises):

Blender

Rhino / Grasshopper

Adobe Suite (Illustrator, Photoshop, InDesign, etc.)

Course Modules

The course is organized into three modules, each of which will help you build resolution in your modelling practices and design work. They will all in some way deal with the production of technical documentation, visualization, and information-driven workflows.

1 | Form Finding & Massing

Poly Modeling
Procedural Modeling 1
Orthographic Representation

2 | Aggregation / Sub-Division

Procedural Modeling II
Instancing
Particles / Scattering
Orthographic Representation

3 | Making & Representation

Representation & Rendering
Digital Fabrication
Orthographic Representation

Assignment Weighting

A0 (participation) – 10%

A1 (module 1) – 30%

A2 (module 2) – 30%

A3 (module 3) – 25%

A4 (portfolio) – 5%

Online Delivery

This course will take place online via Zoom. Students are required to participate in the synchronous Zoom sessions, while completing the design assignments as indicated within the course outline during class time frames as well as in their own time. If unable to participate live due to unforeseen circumstances, inform the instructor in advance to work out an alternative participation activity. Students are expected to participate actively in all Zoom sessions and to turn on their webcam. Please join our class in a quiet space that will allow you to be fully present and engaged in the Zoom sessions. Students must behave in a professional manner during the session. Students, employees, and academic staff are also expected to demonstrate behaviour in class that promotes and maintains a positive and productive learning environment.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor's permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith, and respect (as per the Code of Conduct). When entering Zoom or other video conferencing sessions (such as MS Teams), you play a role in helping create an effective, safe and respectful learning environment. Please be mindful of how your behaviour in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities. Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies (e.g Student Non-Academic Misconduct Policy). If participants have difficulties complying with this requirement, they should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your zoom sessions visit: <https://elearn.ucalgary.ca/guidelines-for-zoom/>

If you are unable to attend a Zoom session, please contact your instructor in advance to arrange an alternative activity for the missed session (e.g., to review the recorded session). Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (for group work, presentations, etc.). The instructor may record online Zoom class sessions for the purposes of supporting student learning in this class –such as making the recording available for review of the session or for students who miss a session. Students will be advised before the instructor initiates a recording of a Zoom session. These recordings will be used to support student learning only and will not be shared or used for any other purpose.

Means of Evaluation

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	

Notes:

- 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.

Course Expectations

Students are expected to:

- Prepare for, attend, and participate in all class sessions.
- Demonstrate graduate-level discourse, in rigour of thought and quality of execution.
- Post or submit assignments on time. Late assignments will be docked half of a letter grade per day.

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 Accommodations policy is available at <https://ucalgary.ca/student-services/access/prospective-students/academic-accommodations>.

Students needing an accommodation based on disability or medical concerns should contact Student Accessibility Services (SAS) in accordance with the Procedure for Accommodations for Students with Disabilities (<https://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities.pdf>). 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. 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

Safety

Participation in this course will involve the use of shop tools, including blades, grinders, lasers, robotic arms, and other Bond villain devices. We shouldn't have to tell you to be safe around lasers, but here it is: improper use of this equipment can result in serious injury and/or damage to the equipment. For detailed information and certification required before using the shop, please refer to the EVDS website:

evds.ucalgary.ca/content/workshop

Students are required to have completed EVDS shop training to use the shop facilities. Please contact the head shop technician (evdsshop@ucalgary.ca) for details about training schedules and other requirements.

SAFE USE OF SHOP EQUIPMENT WILL ALWAYS TAKE PRECEDENCE OVER COURSE REQUIREMENTS. DO NOT DRIVE OR USE SHOP EQUIPMENT IF YOU HAVE MISSED A NIGHT OF SLEEP.

The course will also involve intensive use of software, which can at times entail long stretches in front of a computer. Please be conscious of ergonomic practices in your workspace habits. Take frequent breaks, drink lots of water, and change your scenery every now and again. The following website, published by Cornell University, offers some good advice about the ergonomics of notebook computer use:

ergo.human.cornell.edu/culaptoptips.html