Design Media and Exploration I EVDA 541 H(2-8T)/ARST 451

Fall 2020 _ MW 0840-1250
Co-requisite ARST 484/EVDA 580 - Studio I Design Thinking

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                 Carter McHugh & Edward Park
                 CACB SPC: graphics skills [primary] /design skills [secondary]

INTRODUCTION

Design Media and Exploration I is a skill-building course, taught in conjunction with Studio One. The course begins by framing the notion of representation, the drawings and models that are the architect's tools to explore communicate and ultimately anticipate a future. To this end, the course covers a range of digital and analog techniques for communication, production and design thinking. Three modes of representation will be developed: descriptive explorations, interpretive explorations, and transformative explorations. The course offers a series of graphic exercises with an emphasis placed on the connections between design thinking and making for communication, design iteration, and design resolution.

OBJECTIVES

1. To develop a critical understanding of representation and its connection to the generative processes of architecture.
2. To develop communication skills across a number of platforms both digital and physical drawing (and making - adjusted for remote teaching).
3. To connect critical thinking with design thinking through the development of design processes and the application of strategic tools to assess, interpret, transform and create bodies of knowledge.
4. To develop critical-productive positions regarding the use of various techniques and technologies as they relate to architectural design.
5. To develop skills and familiarity around the use of diagramming, orthographic projection, constructed drawings, scale and measurement, visual notes and sketching, composition and layout, material communication and modeling by hand and by machine, [adjusted for remote teaching], as well as familiarity with the software packages Illustrator, Photoshop, In-Design, Rhinoceros.

TEACHING APPROACH

The course is taught using on-line lectures (via Zoom) that convey specific topic(s) related to a series of assignments. The foundations for completing assignments will be demonstrated through a series of correlate tutorials, discussions, and working /help sessions provided by the course teaching team.

The faculty team and teaching assistants will also provide on-line review through Zoom, D2L and Miro to comment on the work as specified in each assignment's statement. It is expected that students utilize the time allotted in the course for working on projects and should expect to spend additional time outside of the class completing the assignments. Visualisation exercises [including sketching, photography, and hybrid drawings] will be deployed throughout the term and within projects as a means to evaluate and iterate ideas around each graphics project. A portfolio of sketching will be maintained throughout the term.

All completed graphic work is to be posted by the students to the course D2L website. Assignments will not be accepted by email. Class participation is vital to student success in the course and attendance to lectures and tutorials is mandatory. Students are required to participate in the asynchronous learning tasks using the D2L learning environment and synchronous Zoom sessions. If unable to participate live due to unforeseen circumstances, students are to inform the instructors in advance to work out an alternative participation activity (e.g. watch the recordings, submit a brief reflection, and actively contribute to the follow-up online discussion).

CONTENT: TOPIC AREAS AND CLASS SCHEDULE (SUBJECT TO CHANGE)

1.PAMPHLET ONE _ Sept 09 – Oct 19   20 %
   The Foundation: Orthographics and Constructed Geometry

Topics architectural drawing (the *first* orthographic cut) - diagrams - lines
        Tools   *pencil – Rhino - Adobe inDesign / Illustrator*

2. PAMPHLET TWO_ Oct 19 – Nov 18   30 %
        Medium Transformations_ from Analog to Digital to Analog…

Topics   mapping – modelling – transforming – drawing (the *second* orthographic cut) - making
        Tools   *Rhino (Hybrid) - Photoshop - 3D Printing – Adobe Illustrator*

3. PAMPHLET THREE_ Nov 18 – Dec 09 20 %
           Objects within Objects

        Topics   booleans – massing – drawing (the *third* orthographic cut / poche)
        Tools   *Rhino - Photoshop - Adobe Illustrator*

4. CLASS PARTICIPATION and In Class Assignments 20 %

5.MONOGRAPH 10 %

EVALUATION
Evaluation will be based on the assignments completed during the term. Each assignment has to be completed in order to pass the course. Late work will only be graded if submitted before the end of a module or with the permission of the instructor. Evaluation will be as follows:
   Assignments 70 %
   Class Participation and In Class Assignments 20 %
   Monograph 10 %

GRADING SCALE
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.

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	

READINGS AND REFERENCES

Although there are no required readings for this course, the following will be useful as references for both the technical aspects of communication and the conceptual underpinnings of the course. In addition your instructors will provide suggested readings throughout the term to augment this list: Project examples similar to those required in this course can be found in:

Johnson, Jason & Josh Vermillion, *Digital Design Exercises for Architecture Students*
Conceptual Background
Balmond, Cecil, *Informal*
Corner, Paul, *Taking Measure Across the American Landscape*
Technical Background
Browning, Hugh, *The Principles of Architectural Drafting*
C Ching, Francis, D.K., *Design Drawing*
Ramsay and Sleeper, *Architectural Graphic Standards* Communication
Tufte, Edward, *Envisioning Information*

TECHNOLOGY REQUIREMENTS

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses 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;

- A current and updated web browser;
- Webcam (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Broadband internet connection

Most current laptops will have a built-in webcam, speaker and microphone.

RESOURCES
Illustrator:
Lynda.com: https://www.lynda.com/Illustrator-training-tutorials/227-0.html
Adobe TV: https://helpx.adobe.com/illustrator/tutorials.html

InDesign:
Lynda.com: https://www.lynda.com/InDesign-training-tutorials/233-0.html
Adobe TV: https://helpx.adobe.com/indesign/tutorials.html Photoshop:
Lynda.com: https://www.lynda.com/InDesign-training-tutorials/233-0.html
Adobe TV: https://helpx.adobe.com/photoshop/tutorials.html

Rhinoceros:
Learning to Use Rhino: https://www.rhino3d.com/tutorials
Rhino Tutorials: https://vimeo.com/rhino
Lynda.com: https://www.lynda.com/Rhino-training-tutorials/302-0.html
McNeel WiKi: http://wiki.mcneel.com/rhino/tutoriallinks
Plethora Project: http://www.plethora-project.com/2012/01/18/rhino-modeling-the-lf-one-by-zahahadid/

ADDITIONAL CLASSROOM CONDUCT AND RELATED INFORMATION
Guidelines for Zoom Sessions in Online Classes
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, including paying attention to their Zoom background [whether real or virtual]. 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.

Zoom is a video conferencing program that will allow us to meet at specific times for a "live" video conference, so that we can have the opportunity to meet each other virtually and discuss relevant course topics as a learning community.

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.

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

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-bycopyright.pdf) and requirements of the copyright act (https://laws-lois.justice.gc.ca/eng/acts/C42/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.

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More   student support and resources (e.g. safety and wellness) can be found here: **https://www.ucalgary.ca/registrar/registration/course-outlines**