

UNIVERSITY OF CALGARY
DEPARTMENT OF ART

UNDERGRADUATE COURSE OUTLINE

**Art (ART) 431.01
3D Digital Imaging
Fall 2016**

Tuesday/Thursday 9:30-12:15 AB 605

Instructor: *Denis Gadbois*
Office Location: *AB 729*
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Office Hours: *By Appointment*

Course Description

Creative research in 3D digital visualization and fabrication involving multimedia software and hardware. May include 3D printing, rapid prototyping, laser cutting, and computer controlled milling.

Prerequisites &/or Co-requisites

Art 251.

Objectives of the Course

To introduce contemporary production and 3D modeling techniques using Cinema 4D and Mudbox and other proprietary software.

This course offers an introduction to the discipline of 3D Modeling, 3D scanning and fabrication for a Visual Arts perspective. The ability to transfer drawing, painting, photography and sculpture into physical forms using modeling software and manufacturing technologies such as: Computer Numeric Controlled (CNC) Technologies, Rapid Prototyping and Laser Engraving/ Etching.

Textbooks and Readings

Recommendations will be made in class. Readings may be assigned or recommended.

Assignments and Evaluation

Object 3D scanning and mud box Transformation	October 4	15%
Laser Etching Project	October 18	20%
Laser Cutting Embossing Project	November 1	20%
CNC Production	December 8	25%
Cinema 4D Animation	December 8	20%

No assignment is noted as a requiring passing grade for this course.

Registrar-Scheduled Final Exam - NO

Note: It is the student's responsibility to keep a copy of or any relevant documentation regarding each submitted assignment.

Please hand in your assignments directly to your instructor. If this is not possible, you can use the drop box outside of AB 608. Assignments that are put into the drop box will be date-stamped and placed in the instructor's mailbox.

Late Assignment Policy

Late submissions will result in the loss of a half of grade (e.g., B instead of B+) Work will not be considered after Dec 8th and will result in an F.

Additional Information

There will be some extra costs associated with this course (material only):

Laser Cutting: \$20

Laser Embossing: \$20

CNC Production: \$40

Course Activities

Week 1	Tuesday Sept 13th:	AB 605.	Introduction to the class
	Thursday Sept 15 th :	AB 690	3D scanning Demonstration
Week 2	Tuesday Sept 20th:	AB 690.	3D scanning Production
	Thursday Sept 22 nd :	AB 690	3D scanning Production
Week 3	Tuesday Sept 27th:	AB 605.	Introduction to Mudbox
	Thursday Sept 29 th :	AB 605	Mudbox lab and production
Week 4	Tuesday Oct 4th :	AB 605.	Introduction to Photoshop and Illustrator for Laser Cutting
	Thursday Oct 6th :	AB 605	Working on Assignment Laser Etching
Week 5	Tuesday Oct 11th:	AB 605.	Laser Etching Printing (TA)
	Thursday Oct 13th:	AB 605	Laser Etching Printing (TA)
Week 6	Tuesday Oct 18th:	AB 605.	Laser Cutting and Embossing Introduction
	Thursday Oct 20th:	AB 605	Laser Cutting Art
Week 7	Tuesday Oct 25th:	AB 605.	Laser Cutting and Embossing (TA)
	Thursday Oct 27 th :		Laser production (TA)
Week 8	Tuesday Nov 1st:	AB 605.	Introduction to CNC Design and requirement
	Thursday Nov 3rd:	AB 605	CNC Project
Week 9	Tuesday Nov 8th:	AB 605.	CNC Project
	Thursday Nov 10th:		Remembrance Day, no class
Week 10	Tuesday Nov 15th:	AB 605.	CNC Production
	Thursday Nov 17th:	AB 605	Cinema 4D production
Week 11	Tuesday Nov 22nd:	AB 605.	Introduction to Cinema 4D
	Thursday Nov 24th:	AB 605	Cinema 4D Lynda.com

Week 12 Tuesday Nov 29th: AB 605. Cinema 4D Lynda.com
Thursday Dec 1st: AB 605 Cinema 4D Production

Week 12 Tuesday Dec 6th: AB 605. Cinema 4D production
Thursday Dec 8th: Presentation of CNC and Cinema 4D Project

Grading Method/Grading Scale:

Percentage	Grade	G.P.V.	Grade Definition
96-100	A+	4.0	Outstanding
90-95	A	4.0	Excellent-superior performance, showing comprehensive understanding of subject matter.
85-89	A-	3.7	
80-84	B+	3.3	
75-79	B	3.0	Good – clearly above average performance with knowledge of subject matter generally complete.
70-74	B-	2.7	
65-69	C+	2.3	
60-64	C	2.0	Satisfactory – basic understanding of the subject matter.
55-59	C-	1.7	
53-54	D+	1.3	
50-52	D	1.0	Minimal pass – marginal performance; generally insufficient preparation for subsequent courses in the same subject.
0-49	F	0	Fail – unsatisfactory performance or failure to meet course requirements.

Studio Procedures

The creation of art can be a dirty process and a studio is only workable if everyone cooperates in keeping it clean. Out of respect and consideration for your class mates and other users of the space, it is expected that everyone will participate in keeping the studio clean and tidy.

Internet and Electronic Communication Device Information

N.A.

Academic Accommodation

Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services (S.A.S.); S.A.S. 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_0.pdf

Academic Standing

For more information go to <http://www.ucalgary.ca/pubs/calendar/current/f.html>

Deferral of Exams/Term work

It is possible to request a deferral of term work or final examination(s) for reasons of illness, accident, family or domestic affliction, or religious obligations. Please check with Enrolment Services if any of these issues make it impossible for you to sit an exam or finish term work by stated deadlines.

For more information about deferring a final exam go to <https://www.ucalgary.ca/registrar/exams/deferred-exams>

For more information about the deferral term work go to <http://www.ucalgary.ca/pubs/calendar/current/g-7.html>
http://www.ucalgary.ca/registrar/files/registrar/deferred_termwork15.pdf

F.O.I.P.

For more information go to <http://www.ucalgary.ca/secretariat/privacy>

Writing/Plagiarism

Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The University supports the belief that throughout their University careers, students should be taught how to write well so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their University courses and, where appropriate, members of faculty can and should use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Support Services can be utilized by all undergraduate and graduate students who feel they require further assistance.

For more information go to <http://www.ucalgary.ca/ssc/writing-support> or <http://www.ucalgary.ca/pubs/calendar/current/e-2.html>

Using any source whatsoever without clearly documenting it is a serious academic offense. Consequences include failure on the assignment, failure in the course and possibly suspension or expulsion from the university. Visual art projects submitted for course credit must be produced by the student specifically for this class. Students must not submit projects if credit has or will be provided for it in another class. This includes re-worked assignments from previous or concurrent courses, unless permission is provided in writing by the instructor. Additionally, the student is asked to be mindful of using visual sources from the internet, ensuring that that material is not derived from any on-line or other available source, and that appropriate copyright permission is granted, when required.

For more information go to <http://www.ucalgary.ca/pubs/calendar/current/k-2-1.html>

Student Misconduct

For more information go to <http://www.ucalgary.ca/pubs/calendar/current/k.html>

Student Union

For more information go to <http://www.su.ucalgary.ca/>

Student Ombudsman

For more information go to <http://www.ucalgary.ca/provost/students/ombuds>

Lockers

The Art Building lockers are administered through the Student's Union's used bookstore, Bound and Copied. Lockers are rented on a first come, first served basis. Due to the shortage of lockers, and the high demand, students cannot hold more than one locker at a time. All of the details on renting a locker and your responsibilities can be found on the Locker Rental Agreement at

https://www.su.ucalgary.ca/wp-content/uploads/2014/08/locker_rental_agreement_2010.pdf

Lockers for all sessions can be rented through my.ucalgary.ca. Once you're in the Student Centre, click on **Other Academic Services** and choose **Locker Reservation**.

Lockers must be vacated by the end of term.

For more information go to <http://www.su.ucalgary.ca/>

Models

In this class students may be expected to draw from nude models. A student electing not to do so must notify the instructors IN WRITING of his/her concerns.

Portfolios and Assignments

The Department of Art will not assume responsibility for lost or stolen portfolios or course work given to instructors for grading, or for work posted on bulletin boards in the art building.

Note - All unclaimed work will be disposed of.

Note - Studio spaces, bulletin boards and display areas need to be cleared 2 weeks after the last day of classes.

Ethics

Whenever you perform research with human participants (i.e., surveys, interviews or observation) as part of your university studies, you are responsible for following university research ethics guidelines. Your instructor must review and approve of your research plans and supervise your research.

For more information go to <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>

or

<https://www.ucalgary.ca/research/researchers/ethics-compliance/chreb>

Campus Security/Safewalk

Call 220-5333 anytime. Help phones are located throughout campus, parking lots and elevators; they connect directly to Campus Security - in case of emergency, press the red button.

For more information go to <http://www.ucalgary.ca/security/safewalk>

Emergency Evacuation

For more information go to <http://www.ucalgary.ca/emergencyplan/assemblypoints>

Faculty of Arts Program Advising and Student Information Resources

Have a question but not sure where to start? The Arts Students' Centre is your information resource for everything in the Faculty of Arts. Stop by SS102, call us at 220-3580 or email us at ascarts@ucalgary.ca or artsads@ucalgary.ca. You can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns.

For program planning and advice, contact the Student Success Centre at 220-5881 or visit them on the 3rd floor of the Taylor Family Digital Library.

For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at 210-ROCK [7625] or visit them at the MacKimmie Library Block.

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