

UNIVERSITY OF CALGARY
DEPARTMENT OF ART

COURSE OUTLINE

**Art (ART) 431.01
3D Digital Imaging
Fall 2015**

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

Instructor: *Denis Gadbois*
Office Location: *AB 664*
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Web Page: *people.ucalgary.ca/~dgadbois*
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.

This course offers an introduction to the discipline of **3d Modeling 3D scanning and Fabrication** from 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.**

Textbooks and Readings

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

Course Activities

WORKING CALENDER AND CONTENT (SUBJECT TO CHANGE!)

Week 1 Tuesday: AB 605 Introduction to the class (Sept 8th)
 Thursday: AB690, Scanner 3D Lab Head and Shot Session (Sept 10th)

Week 2 Tuesday: AB 690, Scanner 3D Lab Production (Sept 15th)
 Thursday: AB 690 Scanner 3D Lab Production (Sept 17th)

Week 3 Tuesday: AB 690 Scanner 3D Lab Product Production (Sept 22th)

- Thursday: AB 690 Scanner 3D Lab Product Production (Sept 24th)
- Week 4 Tuesday: AB 605, Mud Box (Sept 29th)
Thursday: AB 605, Object 3D Printer Session (Oct 1st)
- Week 5 Tuesday: Mud Box (Oct 6th)
Thursday: AB 605 Mud Box Project Presentation(Oct 8th)
- Week 6 Tuesday: Project Introduction and Laser Etching Presentation (Oct 13th)
Thursday: Studio (Oct 15th)
- Week 7 Tuesday: Laser Etching (Oct 20th)
Thursday: Laser Etching (Oct 22nd)
- Week 8 Tuesday: AB 605 Laser Etching Project Presentation Oct 27th
Thursday: AB 605 laser Project (Oct 29th)
- Week 9 Tuesday: AB 605 Laser project (Nov 3rd)
Thursday: AB 605 Laser Cutting and Embossing (Nov 5th)
- Week 10 Tuesday: (Nov 10th) Studio
Thursday: AB 605 Reading Days. No lectures (Nov 12th)
- Week 11 Tuesday: AB 605 Studio (Nov 17th)
Thursday: AB 605 Laser Cutter Project Presentation (Nov 19th)
- Week 12 Tuesday: AB 605 Cinema 4D Personal Project (Nov 24th)
Thursday: AB 605 Cinema 4D Project(Nov 26th)
- Week 13 Tuesday: AB 605 Cinema 4D(Dec 1st)
Thursday: AB 605 Cinema 4D (Dec 3rd)
- Week 14 Tuesday: AB 605 Presentation Virtual Personal Project (Dec 8th)

Assignments and Evaluation

3d Head Scanning and rapid prototyping reproduction:	October 1st	10%
3D Product Scanning with Mudbox transformation:	October 8th	20%
Laser Etching Project:	October 27th	25%
Laser Cutting/Embossing Project	November 19th	25%
Virtual Personal Project:	December 8th	20%

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.

It is not necessary to achieve a passing grade on any particular component of the course in order to pass the course as a whole.

Registrar-Scheduled Final Exam – NO

Late Policy

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

Additional Information

There will be some extra costs associated with this course:

A subscription to Lynda.com	\$25
CNC production Wood	\$20
Aluminium plate for laser	\$15

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
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

Internet and electronic device use during class is acceptable.

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 go to http://www.ucalgary.ca/registrar/deferred_final

F.O.I.P.

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

Writing/Plagiarism

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

Student Misconduct

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

Student Union and Student Ombudsman

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