

DePaul CDM – ANI 339-401 / 439-401

3D Texturing and Lighting

Fall quarter 2021-2022

Monday & Wednesday afternoons from 1:30PM – 3:00PM

Room: 722 (CDM Building)

Instructor

Heinz Schuller – contact hschulle@depaul.edu

Office Hours – Weekly availability on Zoom, Discord TBA

Course Description

Students will study the processes and techniques for creating materials and lighting rigs for CG environments. Techniques in UV mapping will be explored for both environments and character creation. Lighting will be approached from the foundation of traditional cinematography, then move into technical implementation. Additional topics, including ambient occlusion and global illumination, will also be covered.

PREREQUISITE(S): ANI 230 or GPH 250

Course Objectives

After completing this course, students will have:

1. Achieved a working understanding of tools related to 3D lighting and texturing.
2. Become comfortable with basics of planned lighting workflow.
3. Understand fundamentals of how 3D lighting works in a professional production setting.
4. Be able to create compelling compositions.
5. Be able to create accurate, balanced UVW coordinates & layout
6. Be able to create descriptive, detailed and interesting textures & normal maps.

Recommended Texts (*not required*):

Digital Lighting & Rendering - by Jeremy Birn

New Riders; ISBN: 1562059548

Comment: Very solid overview of CG techniques not tied to a specific software package

The Visual Story - by Bruce Block

Focal Press; ISBN: 978-0-240-80779-9

Comment: Excellent overview of Cinematography

Painting with Light - By John Alton

University of California Press; ISBN: 0-520-08949-9

*Comment: Practical Cinema lighting by one of the masters of Film Noir (originally published in 1949, **be warned that some of the language used is occasionally chauvinistic.**)*

Important Dates:

Tuesday, Sep. 14 2021 – Last day add/swap classes to AQ2021 Schedule (11:59pm Deadline)

Tuesday, Sep. 21 2021 - Last day to select pass/fail option for AQ2021 classes

Wednesday, Sep. 22 2021 - Grades of "W" assigned for classes dropped on/after this day

Tuesday, Oct 26 2021 - Last Day to Withdraw from AQ2020 Classes

More academic calendar info can be found at [this link](#).

Class Schedule – Loop Campus

**NOTE: Details of activities and assignments are subject to updates and/or revisions on-going. I will notify you via e-mail, but please check D2L for the latest syllabus when needed.*

Week 1:

Wednesday September 8

Monday September 13

Week 2:

Wednesday September 15

Monday September 20

Week 3:

Wednesday September 22

Monday September 27

Week 4:

Wednesday September 29

Monday October 4

Week 5:

Wednesday October 6

Monday October 11

Week 6:

Wednesday October 13

Monday October 18

Week 7:

Wednesday October 20

Monday October 25

Week 8:

Wednesday October 27

Monday November 1

Week 9:

Wednesday November 3

Monday November 8

Week 10:

Wednesday November 10

Monday November 15

Week 11:

FINAL PROJECT DUE: Wednesday November 17

There is NO final exam for this course, just a final project due on the above date.

More final exam schedule info at [this link](#).

COVID-19 Health and Safety Precautions

Keeping our DePaul community safe is of utmost importance in the pandemic. Students, faculty and staff are expected to (1) wear a mask as required at all times while indoors on campus; (2) refrain from eating and drinking in classrooms; (3) keep current with their COVID-19 vaccinations or exemptions; (4) stay home if sick; (5) participate in any required COVID-19 testing; (6) complete the online Health and Safety Guidelines for Returning to Campus training; and (7) abide by the City of Chicago Emergency Travel Advisory.

By doing these things, we are Taking Care of DePaul, Together. The recommendations may change as local, state, and federal guidelines evolve. Students who do not abide by the mask requirement may be subject to the student conduct process and will be referred to the Dean of Students Office. Students who have a medical reason for not complying with any requirements should register with DePaul's Center for Student with Disabilities (CSD).

Course Management System & Class Work

Assignments must be handed in on time. On time means your work is submitted through D2L (Desire To Learn system) by the specified time. Work submitted after the deadline may receive partial credit or no credit at the instructor's discretion. Assignment due dates and times will be indicated on D2L.

Attendance:

Students are expected to attend the on-line weekly Zoom sessions. Specific times & day will be announced on the first day of class.

The Zoom sessions are intended to provide additional information beyond the prerecorded lectures, as well as on-line art critiques and providing opportunities to ask questions. Office hours will take place immediately after the class session is finished.

Class Work

Assignments must be handed in on time. On time is submitted through D2L by the pre-determined time. Work submitted after the deadline may receive partial credit or no credit at the instructor's discretion. Students who use lecture time to finish assignments the day they are due will forfeit the right to hand in that assignment. Class time is for working with the material at hand, not finishing late assignments. Assignment due dates and times will be indicated on D2L.

Turning In Assignments:

All assignments handed in digitally must be in the following format (please note upper and lower case usage)

- o lastnameFirstname_projectname.extension
- o example: SchullerHeinz_projectOne.mb

Special Accommodations: If you have any special considerations please see the instructor so you can be accommodated.

BACK UP YOUR WORK: Failure of computer software and or Hardware will not be accepted as an extenuating circumstance for late projects or incomplete grades so back up your work daily. Maya features an 'incremental save' option – USE IT. Hardware or software failure is no excuse for academic or professional project failure .

Grading

This is a rough breakdown of how final grades will be calculated. This is subject to change at the instructor's discretion with notice:

- (7) Weekly assignments - 70 points possible - represents **55%** of course grade
- (1) Mid-term project assignment - 25 points possible - **15%** of course grade
- (1) Final project submission - 50 points possible - **30%** of course grade

Grade/Score Ranges

	A = 100-93	A- = 92-90	
B+ = 89-88	B = 87-83	B- = 82-80	
C+ = 79-78	C = 77-73	C- = 72-70	
D+ = 69-68	D = 67-63	D- = 62-60	F = 59-0

Grade A:

Not only did you successfully complete all assignments, you went above and beyond in working with your teammates and coming up with effective solutions.

Grade B:

You have successfully completed all assignments, contributed equitably to group projects, and you demonstrate a solid understanding of the class topics.

Grade C:

All work turned in.

Grade D:

Requirements for projects are only partially fulfilled.

Grade F:

Student fails to meet minimum course requirements.

Requesting an incomplete grade:

An incomplete grade may only be assigned to a student if the student has experienced an extenuating circumstance near the end of the term, the student is in good standing in the class, and before the last day of the quarter before final exams. See:

<http://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx>

Standards for Achievement

Students will be measured on the following criteria-

- Following Directions and paying attention to Specifics
- Consistent use of Reference Imagery as a basis of design work
- Willingness to investigate problems, ask questions in pursuit of solutions
- Ability to utilize technical knowledge to create visually sound artwork
- Understanding and utilization of visual concepts like silhouette, repetition & variation
- Demonstrating knowledge and proficiency with the basic CG art pipeline
- Drawing upon their own backgrounds and experiences as inspiration

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email.

Respect for Diversity and Inclusion at DePaul University as aligned with our Vincentian Values

At DePaul, our mission calls us to explore “what must be done” in order to respect the inherent dignity and identity of each human person. We value diversity because it is part of our history, our traditions and our future. We see diversity as an asset and a strength that adds to the richness of classroom learning. In my course, I strive to include diverse authors, perspectives and teaching pedagogies. I also encourage open dialogue and spaces for students to express their unique identities and perspectives. I am open to having difficult conversations and I will strive to create an inclusive classroom that values all perspectives. If at any time, the classroom experience does not live up to this expectation, please feel free to contact me via email or

during office hours.

Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses.

A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Please see <https://resources.depaul.edu/teaching-commons/teaching/Pages/online-teaching-evaluations.aspx> for additional information.

Academic Integrity and Plagiarism

This course will be subject to the university's academic integrity policy. All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.

More information can be found at <https://resources.depaul.edu/teaching-commons/teaching/academic-integrity/Pages/default.aspx>.

Posting work on online sites, such as Hero

All students are expected to abide by the University's Academic Integrity Policy which prohibits cheating and other misconduct in student coursework. Publicly sharing or posting online any prior or current materials from this course (including exam questions or answers), is considered to be providing unauthorized assistance prohibited by the policy. Both students who share/post and students who access or use such materials are considered to be cheating under the Policy and will be subject to sanctions for violations of Academic Integrity.

Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the [University Academic Calendar](#).

Information on enrollment, withdrawal, grading and incompletes can be found at:
<http://www.cdm.depaul.edu/Current%20Students/Pages/PoliciesandProcedures.aspx>

Incomplete Grades

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course. All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval. Information about the Incomplete Grades policy can be found at
<http://www.cdm.depaul.edu/Current%20Students/Pages/Grading-Policies.aspx>

Preferred Name & Gender Pronouns

Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the quarter so that I may make appropriate changes to my records.

Please also note that students may choose to identify within the University community with a preferred first name that differs from their legal name and may also update their gender. The preferred first name will appear in University related systems and documents except where the use of the legal name is necessitated or required by University business or legal need. For more information and instructions on how to do so, please see the Student Preferred Name and Gender Policy at <http://policies.depaul.edu/policy/policy.aspx?pid=332>

Students with Disabilities

Students seeking disability-related accommodations are required to register with DePaul's Center for Students with Disabilities (CSD) enabling them to access accommodations and support services to assist with their success. There are two office locations:

- Loop Campus (312) 362-8002
- Lincoln Park Campus (773) 325-1677
- Email: csd@depaul.edu

Students who register with the Center for Students with Disabilities are also invited to contact Dr. Gregory Moorhead, Director of the Center, privately to discuss how he may assist in facilitating the accommodations to be used in a course. This is best done early in the term. The conversation will remain confidential to the extent possible.

Please see <https://offices.depaul.edu/student-affairs/about/departments/Pages/csd.aspx> for Services and Contact Information.