

**DePaul CDM – ANI 336-601 / 436-601**

**3D Modeling Studio**

Spring quarter 2020

Monday & Wednesday afternoons from 3:10pm –4:40pm

Room: None - ONLINE SECTION ONLY

**Instructor**

Heinz Schuller – contact [hschulle@depaul.edu](mailto:hschulle@depaul.edu)

Office Hours –Will conduct via Zoom Conferencing Software Tues/Thurs - Times are TBD

**\*\*\* IMPORTANT NOTICE \*\*\***

Dean Miller has notified us that due to the coronavirus situation, **you should not expect any computer labs at DePaul to be available to use for the entire Spring 2020 Quarter.**

What this means is that for this course, you will need to provide your own access to a computer, a stable internet connection, and be prepared to install the required software on your system (educational/free licenses). More details on this are provided below.

**If you don't have access to these resources, you will need to contact your advisor as soon as possible** to take another course instead. I'm very sorry about this requirement, it's an unfortunate reality of the current situation. I know all of us hope the conditions will improve for everyone soon.

Instructors are still working out their approach to teaching, but at this time I believe that I will be recording lectures in video format and making them available through D2L prior to the scheduled class.

In addition, I will be running Zoom sessions for questions, interaction, and office hours. I'm also hosting a Discord server for our class community.

With all that in mind, here are some details regarding hardware and software you will need for the course.

**1) Computer Requirements**

Have a look at the manufacturer specification links for each software package below, they will ultimately help you figure out if your computer can handle running the software.

**2) Internet Connection**

You'll need a reasonably stable internet connection to access our course materials, videos, and content, as well as licensing the software you will use.

**3) Autodesk Maya 2019.5**

*Here is the page with the hardware & software requirements:*

<https://knowledge.autodesk.com/support/maya/troubleshooting/caas/sfdcarticles/sfdcarticles/System-requirements-for-Autodesk-Maya-2019.html>

You can download the educational version of Maya from the Autodesk Education site. You'll need to create an account, then you can download Maya 2019.5.

<https://www.autodesk.com/education/home>

#### **4) Substance Painter 2019.3**

*Here is the page with the hardware & software requirements:*

<https://docs.substance3d.com/spdoc/technical-requirements-172824034.html>

You can download the educational version of Substance Tools here, do this sooner than later since the approval process could take more than a day (you need to upload a photo of your student id):

<https://www.substance3d.com/education/>

5) Adobe Creative Cloud *isn't required* for the course, however Photoshop definitely would be useful for multiple reasons. Our CDM IT dept. will be forwarding details soon for how student licenses can work remotely, so you don't need to buy a subscription.

You may receive more communication about this, but I wanted to update you as soon as I could. Please contact me if you have any questions about the above, or need any help getting everything set up.

## **Course Description**

Students in this course will broaden and improve their overall skill set by learning a range of modeling techniques. Students will complete several smaller projects that cover topics including speed modeling, efficient low-poly modeling, hard surface modeling, projection texturing, and advanced UV unwrapping techniques. The course will culminate in a final project in which the student will propose and complete an advanced model of their own design.

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 Modeling and Materials.
2. Become comfortable with basics of planned hard surface modeling workflow.
3. Understand fundamentals of how 3D modeling works in a professional production setting.
4. Be able to create compelling modeled objects.
5. Be able to create accurate, balanced UVW coordinates & layout
6. Be able to create descriptive, detailed and interesting textures & normal maps.

## **Recommended Resources (*not required*):**

*Environment Modeling* - by Nate Stephens

Gnomon Workshop: <https://www.thegnomonworkshop.com/tutorials/environment-modeling-for-games>

*Comment: Very solid overview of hard surface modeling from God of War artist*

*Vehicle Modeling for Production* - by Paul Shoeni

Gnomon Workshop: <https://www.thegnomonworkshop.com/tutorials/vehicle-modeling-for-production>

*Comment: Very solid overview of hard surface modeling from God of War artist*

*Digital Modeling* - by William Vaughan

New Riders; ISBN-13: 978-0321700896 : ISBN-10: 0321700899

*Comment: Excellent overview of Modeling, not tool specific*

### **Important Dates:**

Monday April 13, 2020 – Last day add (or swap) classes to SQ2020 Schedule

Tuesday April 14, 2020 – Last day to select pass/fail option

Tuesday April 14, 2020 - Last day to drop classes with no penalty

Tuesday April 14, 2020 - Grades of "W" assigned for classes dropped on or after this day

Friday May 15, 2020 - Last day to withdraw from Spring 2019-2020 Classes

More calendar info can be found here:

<https://academics.depaul.edu/calendar/Pages/default.aspx>

### **Class Schedule\***

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

Week 1:

**Monday March 30**

**Wednesday April 1**

Week 2:

**Monday April 6**

**Wednesday April 8**

Week 3:

**Monday April 13**

**Wednesday April 15**

Week 4:

**Monday April 20**

**Wednesday April 22**

Week 5:

**Monday April 27**

**Wednesday April 29**

Week 6:

**Monday May 4**

**Wednesday May 6**

Week 7:

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**Monday May 11**

**Wednesday May 13**

Week 8:

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**Monday May 18**

**Wednesday May 20**

Week 9:

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**Monday May 25 - NO CLASS (MEMORIAL DAY)**

**Wednesday May 27**

Week 10:

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**Monday June 1**

**Wednesday June 3**

Week 11:

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**TENTATIVE FINAL EXAM PERIOD: Monday June 8, 2020, from 2:30 PM to 4:45 PM**

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

### **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. Students who use lecture time to finish assignments the day they are due may 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.

### **Attendance:**

Due to the on-line only delivery of the classes, formal attendance policies have been suspended until further notice.

### **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:

(10) Weekly assignments

100 points possible - represents **100%** of course grade

## Grade/Score Ranges

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

### 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.

### **Late Submissions**

The goal with this course is that you do the work, otherwise you're not able to gain that experience. Any assignments submitted after the due date will be subject to a 10% grade penalty, but will be accepted until the last day of the academic quarter. In some cases with multi-part projects, consideration may be given to proof of work in later submissions with regards to any prior missed submissions, this is completely at the instructor's discretion.

### **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-

- Effective use of reference imagery
- Mastery of Subdivision & Nurbs Modeling Tools
- Precision of modeling work
- Ability to translate between model resolutions
- Ability to effectively utilize the model baking pipeline

### **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.

### **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. Students complete the evaluation online in [CampusConnect](#).

## **Academic Integrity and Plagiarism**

This course will be subject to the university's academic integrity policy. More information can be found at <http://academicintegrity.depaul.edu/>. If you have any questions be sure to consult with your professor.

### **Statement on Academic Integrity and Plagiarism:**

University guidelines on academic integrity and plagiarism can be found on the Web and in the Student Handbook and are hereby incorporated in this document. The following items are not intended to contradict the university guidelines, but to emphasize or explain areas of particular note for this course.

- Plagiarism applies to any sort of material used on the Web, including for example sound, graphics or images, as well as text.
- Students are responsible for insuring that they use material only with permission and that, when such permission is subject to giving credit, they credit sources appropriately.
- Students who use images, text, sound, trademarks, or other materials developed or owned by others without their permission can be held legally liable. "Academic use" is not a legal defense.
- DePaul University and the professor take no responsibility for any student's use of materials developed or owned by others without their permission.

### **Reuse of materials:**

Anything developed or submitted for an employer or another course cannot be submitted for an assignment in this course without PRIOR permission of the instructor.

## **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://cdm.depaul.edu/enrollment>.

### **Notes regarding Class Participation:**

Active class participation includes, among other things, on-time attendance, taking part in lecture discussions, asking meaningful questions, completing homework assignments on a timely basis, participating in the class, Blackboard discussion forums, and volunteering to demonstrate one's website or other sites of relevance to the class. Students will have the opportunity to complete a self-evaluation of their class participation, which will be considered (but will not be the sole determinant) when computing the class participation portion of their grade.

## **Students with Disabilities**

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at:

[csd@depaul.edu](mailto:csd@depaul.edu).

Lewis Center 1420, 25 East Jackson Blvd.

Phone number: (312)362-8002

Fax: (312)362-6544

TTY: (773)325.7296