



# DEPAUL UNIVERSITY

## COLLEGE OF COMPUTING AND DIGITAL MEDIA

*School of Cinematic Arts*

**ANI  
338  
ANI  
438**

### **3D Organic Modeling**

Winter 2023 | Monday & Wednesday 3:10-4:40 pm @ CDM 722

**Instructor:** Riyadh Hasan

**Email:** riyad.hasan@depaul.edu (best way to reach me)

**Phone:** (312)362-0037

**Office:** Meeting on Zoom

**Office Hours:** TU 2:00-5:00 pm, By Appointment only:

<https://calendly.com/riyadhasan>

**Office Hours Zoom:**

<https://depaul.zoom.us/j/93459792498?pwd=ZU04NzF1V2NNalc3dVgrekI5V1FxUT09>

Password: 610181

#### **Course Description**

In this course students will learn to create highly detailed creatures, characters, and props for both film and games. Students will learn a variety of techniques for working with high density polygon meshes and 3D painting in order to generate detailed texture and normal maps. This course will combine a traditional approach to sculpting and a foundation in human anatomy for quick generation of concepts for 3D models. An emphasis will be placed on developing efficient pipelines to streamline the entire process from modeling to rendering. PREREQUISITE(S): ANI 230

#### **Course Objectives**

After completing this course, students will be able to:

- Develop familiarity and comfort with essential sculpting tools and approaches to 3D sculpting
- Analyze human anatomy to design original characters and creatures
- Manage high-resolution poly modeling and sculpting workflow  
Implement a pipeline from Zbrush to other modeling/animation platforms

**Texts and  
Materials**

Recommended Texts

**Anatomy for Sculptors**

By Uldis Zarins and Sandis Kondrats

**ZBrush Creature Design**

By Madeleine Scott Spencer

**Portrait Sculpting, Anatomy & Expressions in Clay**

By Philippe & Charisse Faraut

REFERENCE WEBSITES

- [www.pixologic.com](http://www.pixologic.com) – Zbrush homepage.
- [www.pixologic.com/zclassroom](http://www.pixologic.com/zclassroom) - Free Zbrush Tutorials
- [www.pixologic.com/zbrushlive/category/askzbrush](http://www.pixologic.com/zbrushlive/category/askzbrush) - Zbrush Tips n' Tricks
- [www.zbrushcentral.com](http://www.zbrushcentral.com)
- [www.philippefaraut.com](http://www.philippefaraut.com) - Amazing and resource for sculptors.
- [www.3Dtotal.com](http://www.3Dtotal.com) – Great source for anatomy reference figures and other 3D books.
- [www.3d.sk](http://www.3d.sk) - Great Source for reference footage of humans.
- [www.highend3d.com](http://www.highend3d.com) – Everything 3D
- Michael Pavlovich on YouTube – Great comprehensive list of Zbrush Tutorials. [www.youtube.com/user/Pavlovich2005](http://www.youtube.com/user/Pavlovich2005)

**Class Policy**

1. By signing up for this course, students agree to follow all the instructions.
2. Students will always strive for the best.
3. Students will be professional, respectful, open to suggestions, and avoid being argumentative.
4. Students should not work on their homework or chat with their classmates during the lecture session.
5. Students should be mindful of others during studio time and ensure they don't disrupt the class.
6. Students will not use cell phones during class time.
7. It's okay to make mistakes. But, rather than making excuses, students are expected to own up to their mistakes.
8. Other course workloads and on/off-campus jobs should not affect students' work for this course.
9. Students will not take critiques and feedback from the instructor personally.
10. Attendance and active participation are essential for students' success. If a student misses more than four in-person classes, it will result in a letter grade drop from their final grade.

**Attendance** Students are expected to attend every class. If, for some reason, you are unable to attend a class, it is your responsibility to let me know in advance. While each class will be recorded and made available for later review, the intention is to complement, not replace, the regular class with an online class experience. Missing more than four classes in the quarter will automatically result in a drop in a letter grade.

The student is responsible for any lectures or assignments missed. Therefore, if an assignment is due in a week that you are absent, you must ensure it still arrives on time.

**Participation** One of the best ways to learn in a classroom environment is through active participation in discussions and critiques. So, when I open up the floor for you to speak, please make an effort to voice your honest and constructive opinion. This will foster a better learning environment while helping everyone learn faster and more effectively.

**Assignments** Assignments must be handed in on time. *On-time* means submitted through D2L one hour before class on the day the assignment is due. If students turn in their assignments on time, they can fix and resubmit any two assignments by the last class of this quarter to improve their grades. Milestone submissions can only be turned in

**Late Work:** You are allotted one late assignment per quarter for unforeseen circumstances. Please, contact your instructor before the due date and let him know you'll use your allocated late submission. This assignment must be completed and turned in by the 10<sup>th</sup> week of the quarter, and you will still receive full credit.

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

- Firstname\_Lastname\_Projectname.extension
- example: Riyad\_Hasan\_Toon\_Character\_01.jpg
- Resubmission: Riyad\_Hasan\_Toon\_Character\_01\_Resubmit.jpg

**Special Accommodations:** Please see the instructor if you have any special considerations.

**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 at least once a week.

**Critiques** Due to the large size of our class and the limited class time, not everyone's work will get a full review during class. If you'd like more feedback, arrange to discuss your work with me during my office hours. We will view and discuss everyone's final project during the last class.

<b>Grading</b>	Project 01: Simple Toon Animal	10 Points
	Project 02: Blocking Human Body	15 Points
	Project 03: Sculpting Human Bust	20 Points
	Project 04: Mythological Creature	20 Points
	Project 05: Creature Concept	20 Points
	Project 06: Creature Render	15 Points
	<b>Total</b>	<b>100 Points</b>

#### Breakdown of Grades by Percentage

	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%

#### Your grade will depend on the following criteria:

- Meeting Project Deadlines: It is vital to have your work available for critique. Work unavailable for critique will be considered late and will not be accepted unless you are using your one late assignment.
- Creativity and personal input into the execution of the project
- Coming prepared to class, including assigned reading and assignments
- Effective visually aesthetic solutions to all problems assigned
- Taking the initiative to work outside of class and research
- Hard work and sweat

**Cell Phones** The use of cell phones in class and the lab is prohibited. Please turn your phone off before entering class. Mistakes will happen (to me, too), but repeated failure is an avoidable distraction. All phone conversations should be conducted outside the class – don't disturb those working in the lab and put others in an uncomfortable situation.

**Headphones** Whether working with sound in your project or simply listening to music while working, you must be considerate of others and wear headphones. Be aware that if the volume is high enough, others can still hear what you're listening to despite the headphones.

**Academic Integrity** Work done for this course must adhere to the DePaul University Academic Integrity Policy, which you can review in the *Student Handbook* or by visiting <https://www.depaul.edu/university-catalog/academic-handbooks/Pages/default.aspx>

**Plagiarism** The university and school policy on plagiarism can be summarized as follows: Students in this course, as well as all other courses in which independent research or writing play a vital part in the course requirements, should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible

expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work a report, examination paper, computer file, lab report, or other assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

**Materials  
and Supplies**

All assignments in this class will be submitted digitally online through D2L unless otherwise noted.

You can also use a file transfer service such as Dropbox or [www.wetransfer.com](http://www.wetransfer.com). To send me any assignment that is too big to fit on D2L. Please do not send me links to your google drive. It crashes my email most of the time (no idea why, sorry!).







**Week 5**  
*Jan 30 Mon*

**DUE**  
Students will bring their work-in-progress ZBrush file to the class

**LECTURE & DEMO**

- Sculpting secondary forms in ZBrush

**STUDIO TIME**

The instructor will give students feedback on their progress

**HOMEWORK**

Students will continue working on their Project 03: Sculpting Human Bust

*Feb 1 Wed*

**LECTURE & DEMO**

- Sculpting secondary and tertiary forms in ZBrush

**STUDIO TIME**

The instructor will give students feedback on their progress

**Project 03: Sculpting Human Bust is DUE before the next class**

Project 03: Sculpting Human Bust









