

COURSE: | Art 195B - Advanced 3D Computer Modeling
INSTRUCTOR: | Kirk Miller

Syllabus

Course Description:	Through a series of class exercises, students will explore the fundamental aspects of modeling and preparation for 3D printing. Students will also become proficient with the basic and intermediate tools of Lightwave 3D.
Textbook:	<i>Inside Lightwave 10</i> , Dan Ablan, New Riders Publishing
Recommended:	<i>3D Printing with MatterControl</i> , Horvath and Cameron, Apress Publishing <i>The New Shop Class</i> , Horvath and Cameron, Apress Publishing
Materials:	Flash Drive (the largest you can afford), Filament for Special personal projects
Grades:	<p>Students will be graded on several small-scale projects and a final project. Since all projects are to be done in class, regular attendance is required. Please do not come after projects are over and ask for instructions on how to do them. You must come to class to participate. If you are ill or have special circumstances and cannot attend, please make arrangements ahead of class to get instructions from a fellow student.</p> <p>All projects (including the final) must be turned in on their respective due dates to receive a grade for the semester. If less than the required number of projects are turned in, the missing projects will be issued a failing grade and averaged with the other projects for the final grade.</p> <p>Grading: Final Project = 40% Small Projects = 30% Participation = 20% Attendance = 10%</p>
Attendance:	Students not present during either of two roll calls will be marked absent. After 3 absences, you will be dropped from the class. Roll will be taken once at the beginning of class and again at the end of class.

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80% or more of all students will be able to create and print a computer generated form.

Due to the nature of this class, it is imperative for all students to attend both class sessions of each week. The tutorials you will work on during class are essential to doing top-quality creative projects. Since classtime is your only opportunity to work on your projects, it is even more important to attend regularly since you cannot make this time up. If you become ill and cannot attend a class, make sure you find a responsible classmate who can help you with what you missed.

Even if you have a computer at home, you must attend class for all 6 hours per week or you will be dropped.

Class time is your only opportunity to use the lab so take full advantage. If you use a Microsoft Windows platform computer at home to work on projects be aware that conflicts and problems with your files may arise, and this is your responsibility to solve these problems on your own. If you feel you might need extra time with the computers, there is a class titled Art 189L that will allow you extra time to work on your projects, but you must enroll in this class separately to attend it, and space is limited.

SLOs: 80% or more of all students will be able to create a computer a prototype model and make a 3D print of it.

Schedule: Dates subject to change.

Week 1: Introduction, Lightwave Interface, Simplify3D Interface, 3D Scanners, 3D Printers

Week 2: 3D Scans, iSense 3D Scanner
Bust Scan

Week 3: 3D Scans, iSense 3D Scanner, 3D Desktop Scanner
Figure Scan

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- Week 4: 3D Scans, Modeling / Cleanup
- Week 5: Composite Sculpture, Modeling, Cleanup, & Printing
Composite Sculpture
- Week 6: Research artists who use repetition in their practice.
Repetition of One Form
- Week 7: Design one form / 3D sculpture using Lightwave or Meshmixer 3D
Repetition of One Form
- Week 8: Model one form / 3D sculpture
Repetition of One Form
- Week 9: Model one form / 3D sculpture
Repetition of One Form
- Week 10: Cleanup, Print model one form/3D sculpture / Document
Repetition of One Form
- Week 11: Research on Public Art - RFP / Statement / Goals
Public Art Project
- Week 12: Project Sketches
Public Art Project
- Week 13: Model Public Art
Public Art Project
- Week 14: Model, Cleanup Public Art
Public Art Project
- Week 15: Print Public Art Project
Public Art Project
- Week 16: Print Public Art Project
Public Art Project

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Week 17: | View Printed Public Art Project / Document
Final / Public Art Project