

Fall 2018 - Syllabus

CPSC 8070 - 3D Modeling and Animation

Instructor

Matias Volonte
Office: 119 McAdams Hall

Office hours:

Contact me at mvolont@clemsn.edu for arranging office hours

Course Description

This class is designed with the objective of presenting to the student the basic areas that a computer graphics animation film contains. The student will learn the procedures required to create a full computer graphics short film. The concepts this class will cover are: filmmaking theory, 3D modeling, texturing, rigging and animation, lighting & rendering, compositing and editing.

Class meeting times

Where: McAdams Hall 110E.
When: Tuesday and Thursday, 3:30PM - 4:45 PM.

Class methodology

This class is designed to be practical. The areas covered in the class will be: Modeling, Texturing, Animation, Lighting, Rendering, Rigging, and compositing. The class will be divided in theory and then students will practice by doing exercises to amalgamate the theory.

At the end of the semester, the student will deliver a short animation containing all the areas covered in the class over the semester.

Webpage

For each project or exercise add to your webpage:

- Description of the problem and solution.
- Images and/or videos produced.
- Compressed file containing source files used for the assignment.

Late Work

Late assignments will be accepted with penalty (10%/day).

Independent/Team Work

You must work on projects independently, unless specifically authorized to work in teams. Cheating of any kind will not be tolerated and will result in significant penalties.

Grading

This class will be projects and exercises based. Each of the topics covered in the class will be followed by an exercise that will prove that the student learned the concepts. Also, there will be a Final Project containing all the 3D concepts taught in class. Finally, Participation and engagement is required in this class.

- Final project 60%.
- Class Exercises 30%.
- Participation 10%.

Letter grades will be based on a 10-point scale. These ranges may be changed somewhat, but only to your advantage.

Course Topics

This class will include the basic areas that a typical CG production pipeline contains. At the end of this class, the student will have a full understanding of all the basic elements needed to create a CG product.

Topics for the course include:

- Modeling
- Shading and Texturing
- Rigging
- Animation
- Lighting & rendering
- Scripting
- Compositing and Editing

Class assistance

Attendance Policy Studies have found that the single most important factor that contributes to success in a course is class attendance. With this class, like others, each lecture builds upon preceding lectures. Missing even a single class can make it difficult to keep up with the course material. Regular and punctual attendance at all class sessions is expected. For University-sponsored events, students must provide written notice prior to the event. For all other excused absences, students should provide to the instructor as soon as possible, written documentation from an acceptable outside source (e.g., school administrator or physician).

Recording Devices

Lectures may not be recorded without the written permission of the instructors, and you do not have the instructors' permission to use notes from the lectures for commercial lecture note purposes.

Academic Integrity Statement

As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form. In instances where academic standards may have

been compromised, Clemson University has a responsibility to respond appropriately to charges of violations of academic integrity.

Important Dates

September 4, 2018: Last day to drop or withdraw without a W grade

Nov. 5 - 6, 2018: Fall break

Final project delivery: Dec. 14th

Accessibility Statement

Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the professor know, and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-6566848, by emailing studentaccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged – drop-ins will be seen if at all possible, but there could be a significant wait due to scheduled appointments. Students who receive Academic Access Letters are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student's responsibility to follow this process each semester. You can access further information here: <http://www.clemson.edu/campus-life/campus-services/sds/>.

Title IX (Sexual Harassment) Statement

Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This policy is located at <http://www.clemson.edu/campus-life/campus-services/access/title-ix/>. Mr. Jerry Knighton is the Clemson University Title IX Coordinator. He also is the Director of Access and Equity. His office is located at 110 Holtzendorff Hall, 864.656.3184 (voice) or 864.656.0899 (TDD).