CPSC 8110 – Technical Character Animation  
Spring 2018  
Syllabus

Instructor
Dr. Sophie Joerg  656-0538  
318 McAdams Hall  sjocrg@clemson.edu  
Office hours: Tue 1:30-2:30pm 

Course Topics
This course introduces students to the state of the art in computer animation with a focus on character animation. Topics for the course include animation basics, forward kinematics/inverse kinematics, motion editing, motion capture, motion graphs and motion trees, the perception of animation, faces and eyes, gestures and hands, emotions and style, behavior, and animation controllers.

Class Meeting Times
TR 9:30pm-10:45pm, McAdams 110E  
Students are expected to wait for 15 minutes after the beginning of class before leaving if the instructor is late.

Materials

Software: Unity 5.6, 3D Game Engine, https://unity3d.com/ (required)

Grading
Final grades will be based on assignments, your main project, a paper presentation, and participation. Class participation includes: contribution to class discussion, engagement, class attendance, and attitude.

Assignments/Homework/Quizzes  40%  
Project  30%  
Paper presentation  20%  
Participation  10%  

Letter grades will be based on a 100-point scale. These ranges may be changed somewhat, but only to your advantage.
Assignments

Each of the assignments should follow the guidelines listed below.

- **Source Files** For each assignment, you will be notified on the method for submitting source files, if required.

- **Late Work** Late assignments will be accepted with penalty deemed appropriate (10%/day).

- **Independent/Team Work** You must work on assignments independently, unless specifically authorized to work in teams. Cheating of any kind will not be tolerated and will result in significant penalties. Copying content from the internet is cheating.

Project

A half-semester long project that illustrates in-depth knowledge of one aspect of animation. Team projects are allowed. The complexity of the project should reflect the number of members of the team and all team members are expected to contribute equally to the final project.

Paper Presentation

Each student will be required to present a selected research article. It is possible to select both the project and the presentation on a related topic.

Academic Integrity

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.

See the *Graduate School Policy Handbook* for the graduate academic integrity policy.

Disability Access Statement

It is university policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities. Students with disabilities requesting accommodations should make an appointment with Accessibility Services (656-6848), to discuss specific needs within the first month of classes.
Students should present a Faculty Accommodation Letter from Student Accessibility Services when they meet with instructors. Accommodations are not retroactive and new Faculty Accommodation Letters must be presented each semester.

Clemson University Title IX 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, veterans status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) 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. The policy is located at http://www.clemson.edu/campus-life/campus-services/access/non-discrimination-policy.html. Alesia Smith serves as Clemson's Title IX Coordinator and may be reached at alesias@clemson.edu or (864) 656-3181.