Course Syllabus ART 376 01 ADVANCED 3D COMPUTER ANIMATION 3 Credit Hours Fall 2007

Room 217 Farrington Mon/Wed 12:00 - 2:50

David Dawson
Office 215 Farrington
936 294 3200
Dsd002@shsu.edu
Office hours – I hour before and after class as well as by appointment

Course Description

This course provides with certified training in Maya, a 3D computer animation program that is the standard in the industry.

It is designed for students who have some experience using 3D modeling and animating software and seek to continue developing their skills as animators. Topics include Polygonal and NURBS modeling techniques; Joints, Deformers and Constraints; Inverse Kinematics; Lighting and Texturing techniques; Rendering and Compositing.

Course Objectives

At the conclusion of this course, Students should

- understand the Maya interface and dependency graph
- be able to use Maya to model and animate representations of 3 dimensional objects.
- •be able to create virtual environments and lighting effects
- be able to use dynamics in an animated scene
- be able to create shading groups and texture maps and render scenes
- be able to compile rendered frames into a QuickTime movie with sound

Methodology

The course will be taught through lectures and demonstrations as well as through the examination and discussion of professional work. The software used will be Maya 8.

Students will become familiar with Maya by completing the polygonal modeling and polygonal texturing section of the getting started PDF or by doing one of the three projects 1, 2 or 3 in the *Learning Maya 8 Foundation* book that is available from Amazon.com and other websites. Project 1 encompasses varies aspects of

creating a room in Maya such as lighting, texturing, particle affects, and rendering. Project 2 deals with Polygonal modeling tools, UV projection (Unwrapping) and animated textures. Project 3 demonstrates methods and work flows used when creating a character in Maya including modeling, creating joints, animating, texture mapping and rendering. For the first few weeks of the semester, there will be demonstrations followed by lab time to complete your individual projects.

Upon the successful completion of your project, each student will work on an independent project of your choice. You will be required to present your idea for your personal project through pre visualization (i.e. 2D sketches, storyboards, thumbnails or illustrations/color comps.) Your project will need to include the use of Maya's polygonal modeling and UV projection tools. You will also be asked to create custom textures generated through the use of Photoshop or Painter. The final required component of your project will be the use of Maya's set driven key feature.

Supplies

Sketchbook CD-R's or CD-RW's, or jump drive DVD-R

Required Text

Learning Maya 8 Foundation Published by Autodesk

Attendance is mandatory

According to University policy, a student may miss 3 hours (that's one class period) before their final grade is affected.

In this course, you may miss two class periods before your final grade is affected. Use your absences wisely. I suggest saving them for when you are sick or in jail. Please do not ask me if you can miss class for personal reasons. If you have 3 absences, your final grade will be lowered 5 points, 4 absences –10 points, 5 –15, 6 –20, 7 –25. If you miss more than 7 classes, you will not pass the course. Students who are more than 20 minutes late will be counted absent. Students are expected to remain in class the entire period. You are responsible for all assignments and information given in class even if you are absent.

Assignments, Exams and Grading Grade 1: *Project 1, 2 or 3*

Grade based on successful completion of tutorial.

DUE / Aug 29 Wed

33%

Grade 2: *Pre Visualization*- sketches, storyboard, presentation 33%

Grade based on ability to effectively articulate a cohesive, interesting cartoon level. Your grade will include the descriptiveness of drawings, appeal of story or scene, and student's ability to "sell" project to class in presentation.

DUE / Sep 5 Wed

Grade 3: Final completed 3D scene

33%

Grade based on successful completion of project and the artistic merit of your work.

DUE / Oct 15 Mon FARSIGHT SUBMISSION DEADLINE

DUE / Dec 12 Wed

Total = Final Grade

In this class 100-90=A, 89-80=B, 79-70=C, 69-60=D 59-0=F.

At the conclusion of each project, work will be discussed in a critique. Grades for each project will be based on craftsmanship and quality, as well as an expressed understanding of concepts. All work must be turned in on time for full credit. An emphasis is placed on the artistic merit and appeal of your work!

The grade of **C** is considered average. If work meets the minimum stated requirements for the project, it will be considered average in terms of design, concept and craft. Work that exceeds that basic expectation will have points added and fall into the **B** range, and exceptional work will earn an **A**. Work that fails to meet the minimum criteria for the project will receive **C-**, **D**, or **F**.

Grades for each project and exam will be posted on Blackboard within 2 weeks of the due date. Due to the amount of work required for the course, work cannot be re-done and re-submitted for re-grading. Extra Credit work is not allowed.

Academic Dishonesty

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honest and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

Students who submit work for credit that has been authored by anyone other than themselves, or who plagiarize (copy) work by others will fail the course and may be subject to further departmental and university discipline.

Classroom Rules of Conduct

Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus impedes the mission of the university. Cellular telephones and pagers must be turned off before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

Students must abide by the posted lab rules concerning use of computers or lab privileges will be revoked.

No Food is allowed in the lab. Drinks may be brought in as long as they are kept on the center table and not placed on the computer tables. Please dispose of any trash (including newspapers) that you bring into the room. The privilege of consuming beverages in the classroom will be revoked if it is abused.

Visitors in the Classroom

Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether or not the visitor will be allowed to remain in the classroom.

Americans with Disabilities Act

It is the policy of Sam Houston State University that no otherwise qualified disabled individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any academic or Student Life program or activity. Disabled students may request assistance with academically related problems stemming from individual disabilities by contacting the Director of the Counseling Center in Lee Drain Annex or by calling (936) 294-1720.

Religious Holidays

University policy states that a student who is absent from class for the observance of a religious holy day must be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the

absence. Students must be excused to travel for observance of a religious holy day. A student who wishes to be excused for a religious holy day must present the instructor with a written statement describing the holy day(s) and the travel involved. The instructor should provide the student with a written description of the deadline for the completion of missed exams or assignments.

Calendar Advanced Animation (Subject to Change)

Aug 20 Mon Intro to Maya. Aug 27 Mon Demos and Lecture. (Poly Tools) Sep 3 Mon Labor Day Holiday Sep 5 Wed Grade 1: Project Due/lab (Sketching and Perspective) Sep 10 Mon Demo/lab (UV projection Tools) Sep 12 Wed PP/Demo/lab (Unwrapping and Photoshop) Sep 17 Mon PP/Demo/lab (Inwrapping and Photoshop) Sep 19 Wed PP/Demo/lab (Inwrapping and Photoshop) Sep 19 Wed PP/Demo/lab (Inwrapping and Photoshop) Sep 19 Wed PP/Demo/lab (Inwrapping and Photoshop) Sep 24 Mon PP/Demo/lab (Inwrapping and Photoshop) Sep 26 Wed PP/Demo/lab (Invrapping and Photoshop) Oct 1 Mon PP/Demo/lab (Invrapping and Photoshop) Oct 1 Mon PP/Demo/lab (Invrapping and Photoshop) Oct 3 Wed PP/Demo/lab (Invrapping and Photoshop) Oct 10 Wed PP/Demo/lab (Inghting a character 3 point) Oct 17 Wed PP/Demo/lab (Inghting a character 3 point) Oct 22 Mon PP/Demo/lab (Inghting a character 3 point) Oct 24 Wed PP/Demo/lab (Inghting a character 3 point) Oct 29 Mon PP/Demo/lab (Inghting a character 3 point) Oct 31 Wed PP/Demo/lab (Inghting a character 3 point) Oct 31 Wed PP/Demo/lab (Inghting a character 3 point) Oct 31 Wed PP/Demo/lab (Inghting a character 3 point) Oct 29 Mon PP/Demo/lab (Inghting a character 3 point) Oct 30 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 30 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 31 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 31 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 32 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 34 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 35 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 36 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 37 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 38 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 30 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 30 Wed PP/Demo/lab (Inghting a Character 3 point) Oct 30 Wed PP/Demo/lab (T 16
Aug 27 MonDemos and Lecture. (Poly Tools)Aug 29 WedGrade1: Project Due/lab (Sketching and Perspective)Sep 3 MonLabor Day HolidaySep 5 WedGrade 2 Pre visualization Due - Presentations.Sep 10 MonDemo/lab (UV projection Tools)Sep 12 WedPP/Demo/lab (Unwrapping and Photoshop)Sep 17 MonPP/Demo/lab (Low Poly Vehicles)Sep 19 WedPP/Demo/lab (Low Poly Tree)Sep 24 MonPP/Demo/lab (Texture and Photoshop)Sep 26 WedPP/Demo/lab (Texturing grass, shrubs)Oct 1 MonPP/Demo/lab (Texture mapping environments)Oct 3 WedPP/Demo/lab (Texture mapping/Photoshop)Oct 8 MonPP/Demo/lab (Photoshop/Normal Mapping)Oct 10 WedPP/Demo/lab (Lights)Oct 17 WedPP/Demo/lab (Lighting a character 3 point)Oct 22 MonPP/Demo/lab (Cameras and Rendering)Oct 24 WedPP/Demo/lab (Poly Tools edge looping/ Head)Oct 29 MonPP/Demo/lab (Poly Tools edge looping/ Body)Oct 31 WedPP/Demo/lab (Unwrapping a character)Nov 5 MonPP/Demo/lab (Set Driven Key)Nov 12 MonPP/Demo/lab (Set Driven Key)Nov 14 WedPP/Demo/lab (Set Driven Key)Nov 19 MonPP/Demo/lab (Character setup/face/Clusters)Nov 26 MonPP/Demo/lab (Character setup/face /Blend Shape)Nov 28 WedPP/Demo/lab (Character setup/ skinning)Dec 3 MonPP/Demo/lab (Character setup/ IK handles)Dec 5 WedPP/Demo/lab (Character setup/ IK handles)	Aug 20 Mon	Intro to Maya.
Aug 29 Wed		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Sep 3 Mon Grade 2 Pre visualization Due - Presentations. Sep 10 Mon Demo/lab (UV projection Tools) Sep 12 Wed PP/Demo/lab (Unwrapping and Photoshop) Sep 17 Mon PP/Demo/lab (Low Poly Vehicles) Sep 19 Wed PP/Demo/lab (Low Poly Vehicles) Sep 24 Mon PP/Demo/lab (Low Poly Tree) Sep 26 Wed PP/Demo/lab (Texture mapping environments) Oct 1 Mon PP/Demo/lab (Texture mapping environments) Oct 3 Wed PP/Demo/lab (Texture mapping/Photoshop) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Texture mapping character) Nov 5 Mon PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Coharacter setup/ IK handles) Dec 5 Wed PP/Demo/lab (Character setup/ IK vs. FK)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Sep 5WedGrade 2 Pre visualization Due - Presentations.Sep 10MonDemo/lab (UV projection Tools)Sep 12WedPP/Demo/lab (Unwrapping and Photoshop)Sep 17MonPP/Demo/lab (Low Poly Vehicles)Sep 19WedPP/Demo/lab (Low Poly Vehicles)Sep 24MonPP/Demo/lab (Low Poly Tree)Sep 26WedPP/Demo/lab (Texturing grass, shrubs)Oct 1MonPP/Demo/lab (Texture mapping environments)Oct 3WedPP/Demo/lab (Texture mapping/Photoshop)Oct 8MonPP/Demo/lab (Photoshop/Normal Mapping)Oct 10WedPP/Demo/lab (Lights)Oct 15MonFARSIGHT SUBMISSION DEADLINEOct 17WedPP/Demo/lab (Lighting a character 3 point)Oct 22MonPP/Demo/lab (Cameras and Rendering)Oct 24WedPP/Demo/lab (Poly Tools edge looping/ Head)Oct 29MonPP/Demo/lab (Poly Tools edge looping/ Body)Oct 31WedPP/Demo/lab (Unwrapping a character)Nov 5MonPP/Demo/lab (Texture mapping characters)Nov 7WedPP/Demo/lab (Set Driven Key)Nov 12MonPP/Demo/lab (Set Driven Key)Nov 19MonPP/Demo/lab (Character setup/face/Clusters)Nov 20MonPP/Demo/lab (Character setup/ scipled Shape)Nov 21WedPP/Demo/lab (Character setup/ skinning)Dec 3MonPP/Demo/lab (Character setup/ IK handles)Dec 5WedPP/Demo/lab (Character setup/ IK vs. FK) <td></td> <td>Grade1: Project Due/lab (Sketching and Perspective)</td>		Grade1: Project Due/lab (Sketching and Perspective)
Sep 10 Mon Demo/lab (UV projection Tools) Sep 12 Wed PP/Demo/lab (Unwrapping and Photoshop) Sep 17 Mon PP/Demo/lab (Texture and Photoshop) Sep 19 Wed PP/Demo/lab (Low Poly Vehicles) Sep 24 Mon PP/Demo/lab (Low Poly Tree) Sep 26 Wed PP/Demo/lab (Texturing grass, shrubs) Oct 1 Mon PP/Demo/lab (Texture mapping environments) Oct 3 Wed PP/Demo/lab (Texture mapping Photoshop) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Texture mapping characters) Nov 5 Mon PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Sep 3 Mon	· ·
Sep 12 Wed PP/Demo/lab (Unwrapping and Photoshop) Sep 17 Mon PP/Demo/lab (Texture and Photoshop) Sep 19 Wed PP/Demo/lab (Low Poly Vehicles) Sep 24 Mon PP/Demo/lab (Low Poly Tree) Sep 26 Wed PP/Demo/lab (Texturing grass, shrubs) Oct 1 Mon PP/Demo/lab (Texture mapping environments) Oct 3 Wed PP/Demo/lab (Texture mapping environments) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Sep 5 Wed	Grade 2 Pre visualization Due - Presentations.
Sep 17 MonPP/Demo/lab (Texture and Photoshop)Sep 19 WedPP/Demo/lab (Low Poly Vehicles)Sep 24 MonPP/Demo/lab (Low Poly Tree)Sep 26 WedPP/Demo/lab (Texturing grass, shrubs)Oct 1 MonPP/Demo/lab (Texture mapping environments)Oct 3 WedPP/Demo/lab (Texture mapping/Photoshop)Oct 8 MonPP/Demo/lab (Photoshop/Normal Mapping)Oct 10 WedPP/Demo/lab (Lights)Oct 15 MonFARSIGHT SUBMISSION DEADLINEOct 17 WedPP/Demo/lab (Lighting a character 3 point)Oct 22 MonPP/Demo/lab (Cameras and Rendering)Oct 24 WedPP/Demo/lab (Poly Tools edge looping/ Head)Oct 29 MonPP/Demo/lab (Poly Tools edge looping/ Body)Oct 31 WedPP/Demo/lab (Unwrapping a character)Nov 5 MonPP/Demo/lab (Texture mapping characters)Nov 7 WedPP/Demo/lab (Set Driven Key)Nov 12 MonPP/Demo/lab (Set Driven Key)Nov 14 WedPP/Demo/lab (Character setup/face/Clusters)Nov 20 MonPP/Demo/lab (Character setup/ face / Blend Shape)Nov 21 WedThanksgiving holidaysNov 26 MonPP/Demo/lab (Character setup/ joints)Nov 28 WedPP/Demo/lab (Character setup/ skinning)Dec 3 MonPP/Demo/lab (Character setup/ IK handles)Dec 5 WedPP/Demo/lab (Character setup/ IK handles)Dec 10 MonPP/Demo/lab (Character setup/ IK vs. FK)	Sep 10 Mon	Demo/lab (UV projection Tools)
Sep 19 Wed PP/Demo/lab (Low Poly Vehicles) Sep 24 Mon PP/Demo/lab (Low Poly Tree) Sep 26 Wed PP/Demo/lab (Texturing grass, shrubs) Oct 1 Mon PP/Demo/lab (Texture mapping environments) Oct 3 Wed PP/Demo/lab (Texture mapping Photoshop) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Sep 12 Wed	PP/Demo/lab (Unwrapping and Photoshop)
Sep 24 Mon PP/Demo/lab (Low Poly Tree) Sep 26 Wed PP/Demo/lab (Texturing grass, shrubs) Oct 1 Mon PP/Demo/lab (Texture mapping environments) Oct 3 Wed PP/Demo/lab (Texture mapping/Photoshop) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Sep 17 Mon	PP/Demo/lab (Texture and Photoshop)
Sep 26 Wed PP/Demo/lab (Texturing grass, shrubs) Oct 1 Mon PP/Demo/lab (Texture mapping environments) Oct 3 Wed PP/Demo/lab (Texture mapping/Photoshop) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Sep 19 Wed	PP/Demo/lab (Low Poly Vehicles)
Oct 1 Mon PP/Demo/lab (Texture mapping environments) Oct 3 Wed PP/Demo/lab (Texture mapping/Photoshop) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Sep 24 Mon	PP/Demo/lab (Low Poly Tree)
Oct 3 Wed PP/Demo/lab (Texture mapping/Photoshop) Oct 8 Mon PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Sep 26 Wed	PP/Demo/lab (Texturing grass, shrubs)
Oct 10 Wed PP/Demo/lab (Photoshop/Normal Mapping) Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Oct 1 Mon	PP/Demo/lab (Texture mapping environments)
Oct 10 Wed PP/Demo/lab (Lights) Oct 15 Mon FARSIGHT SUBMISSION DEADLINE Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Oct 3 Wed	PP/Demo/lab (Texture mapping/Photoshop)
Oct 15 Mon PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 5 Wed PP/Demo/lab (Character setup/ IK vs. FK)	Oct 8 Mon	PP/Demo/lab (Photoshop/Normal Mapping)
Oct 17 Wed PP/Demo/lab (Lighting a character 3 point) Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Oct 10 Wed	PP/Demo/lab (Lights)
Oct 22 Mon PP/Demo/lab (Cameras and Rendering) Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Oct 15 Mon	FARSIGHT SUBMISSION DEADLINE
Oct 24 Wed PP/Demo/lab (Poly Tools edge looping/ Head) Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 5 Wed PP/Demo/lab (Character setup/ IK vs. FK)	Oct 17 Wed	PP/Demo/lab (Lighting a character 3 point)
Oct 29 Mon PP/Demo/lab (Poly Tools edge looping/ Body) Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Character setup/ IK handles) Dec 5 Wed PP/Demo/lab (Character setup/ IK vs. FK)	Oct 22 Mon	PP/Demo/lab (Cameras and Rendering)
Oct 31 Wed PP/Demo/lab (Unwrapping a character) Nov 5 Mon PP/Demo/lab (Texture mapping characters) Nov 7 Wed PP/Demo/lab (Set Driven Key) Nov 12 Mon PP/Demo/lab (Set Driven Key) Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Oct 24 Wed	PP/Demo/lab (Poly Tools edge looping/ Head)
Nov 5 MonPP/Demo/lab (Texture mapping characters)Nov 7 WedPP/Demo/lab (Set Driven Key)Nov 12 MonPP/Demo/lab (Set Driven Key)Nov 14 WedPP/Demo/lab (Character setup/face/Clusters)Nov 19 MonPP/Demo/lab (Character setup/face / Blend Shape)Nov 21 WedThanksgiving holidaysNov 26 MonPP/Demo/lab (Character setup/ joints)Nov 28 WedPP/Demo/lab (Character setup/ skinning)Dec 3 MonPP/Demo/lab (Iconic controls)Dec 5 WedPP/Demo/lab (Character setup/ IK handles)Dec 10 MonPP/Demo/lab (Character setup/ IK vs. FK)	Oct 29 Mon	PP/Demo/lab (Poly Tools edge looping/ Body)
Nov 7 WedPP/Demo/lab (Set Driven Key)Nov 12 MonPP/Demo/lab (Set Driven Key)Nov 14 WedPP/Demo/lab (Character setup/face/Clusters)Nov 19 MonPP/Demo/lab (Character setup/face / Blend Shape)Nov 21 WedThanksgiving holidaysNov 26 MonPP/Demo/lab (Character setup/ joints)Nov 28 WedPP/Demo/lab (Character setup/ skinning)Dec 3 MonPP/Demo/lab (Iconic controls)Dec 5 WedPP/Demo/lab (Character setup/ IK handles)Dec 10 MonPP/Demo/lab (Character setup/ IK vs. FK)	Oct 31 Wed	PP/Demo/lab (Unwrapping a character)
Nov 12 MonPP/Demo/lab (Set Driven Key)Nov 14 WedPP/Demo/lab (Character setup/face/Clusters)Nov 19 MonPP/Demo/lab (Character setup/face / Blend Shape)Nov 21 WedThanksgiving holidaysNov 26 MonPP/Demo/lab (Character setup/ joints)Nov 28 WedPP/Demo/lab (Character setup/ skinning)Dec 3 MonPP/Demo/lab (Iconic controls)Dec 5 WedPP/Demo/lab (Character setup/ IK handles)Dec 10 MonPP/Demo/lab (Character setup/ IK vs. FK)	Nov 5 Mon	PP/Demo/lab (Texture mapping characters)
Nov 14 Wed PP/Demo/lab (Character setup/face/Clusters) Nov 19 Mon PP/Demo/lab (Character setup/face / Blend Shape) Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Nov 7 Wed	PP/Demo/lab (Set Driven Key)
Nov 19 MonPP/Demo/lab (Character setup/face / Blend Shape)Nov 21 WedThanksgiving holidaysNov 26 MonPP/Demo/lab (Character setup/ joints)Nov 28 WedPP/Demo/lab (Character setup/ skinning)Dec 3 MonPP/Demo/lab (Iconic controls)Dec 5 WedPP/Demo/lab (Character setup/ IK handles)Dec 10 MonPP/Demo/lab (Character setup/ IK vs. FK)	Nov 12 Mon	PP/Demo/lab (Set Driven Key)
Nov 21 Wed Thanksgiving holidays Nov 26 Mon PP/Demo/lab (Character setup/ joints) Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Nov 14 Wed	PP/Demo/lab (Character setup/face/Clusters)
Nov 26 MonPP/Demo/lab (Character setup/ joints)Nov 28 WedPP/Demo/lab (Character setup/ skinning)Dec 3 MonPP/Demo/lab (Iconic controls)Dec 5 WedPP/Demo/lab (Character setup/ IK handles)Dec 10 MonPP/Demo/lab (Character setup/ IK vs. FK)	Nov 19 Mon	PP/Demo/lab (Character setup/face / Blend Shape)
Nov 28 Wed PP/Demo/lab (Character setup/ skinning) Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Nov 21 Wed	Thanksgiving holidays
Dec 3 Mon PP/Demo/lab (Iconic controls) Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Nov 26 Mon	PP/Demo/lab (Character setup/ joints)
Dec 5 Wed PP/Demo/lab (Character setup/ IK handles) Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Nov 28 Wed	PP/Demo/lab (Character setup/ skinning)
Dec 10 Mon PP/Demo/lab (Character setup/ IK vs. FK)	Dec 3 Mon	PP/Demo/lab (Iconic controls)
	Dec 5 Wed	PP/Demo/lab (Character setup/ IK handles)
Dec 12 Wed Project 3 Due. Critique.	Dec 10 Mon	PP/Demo/lab (Character setup/ IK vs. FK)
	Dec 12 Wed	Project 3 Due. Critique.

Students Repeating the Course

If you are taking the course for the second time, you will be working more independently on the following projects. Attendance in class, however, is required.

Project 1: Character Development and Design.

Begin by verbally describing your character. Write a description of his or her *characteristics*. Are they smart or stupid, evil or good, slovenly, clumsy, heroic, afraid of heights, vain, proud, shy, confident, athletic, prissy, etc. These characteristics will determine the way your character looks.

Gather research material. For example, if your character happens to be a bunny rabbit, find pictures of rabbits that you can use as reference.

Do sketches of your character. The character must have two legs and walk on them. Otherwise it may be anything. Try to create a character that has some of the qualities in your description in the way he or she looks. Don't be satisfied with your first drawing. Do it several times, refining it each time. When you are happy with your character, draw it with a variety of expressions (happy, sad, etc).

Project 2: Modeling the Character.

In Maya, create a Model of the Character, give it skeleton, surfaces, and prepare it for animation.

Project 3: Walk Cycles.

Create three different walk cycles that can be looped.

The walk cycles should express different ways the character is feeling. For example a normal walk, an exhausted walk and a perky walk. Render the three walks.

Project 4: Compositing.

Videotape a scene as an environment for your character. Animate the character in this environment. For example, videotape a room with a chair and have the character walk in and sit down. (Try to be more interesting than that, but remember to keep it simple enough that it remains in the realm of possibility.) Or videotape a tree and have your character swing from a vine, or jump out of it.

Each Project is worth 25% of the final grade. They must be turned in by the deadline for full credit.