San José State University  
College of Humanities and the Arts/Animation and Illustration  
41445, Introduction to 3D Modeling, 01, Fall, 2017

Course and Contact Information

Instructor: Dave Gustlin
Office Location: Art 218
Telephone: (408) 924-4661
Email: Use CANVAS to email
Office Hours: MoWe 11:30 AM - 12:00 PM
Class Days/Time: MoWe 12:00 PM - 2:50 PM
Classroom: Art 222

Course Description

The goal of this class is to introduce the student to the basics of 3D modeling. Concepts will include "kit bashing", clean modeling, and 3-ky modeling. In addition, we will learn to apply custom UV Mapping coordinates, textures applied with tuned materials, lighting, rendering, and the creation of presentation materials.

This experience should prepare you to be able to parlay your 3D knowledge in several different ways...quickly throwing together scenes for basic perspective and lighting to paint over, to make quality video game assets, and also feature film style props.

At the completion of this class you should have at least one portfolio piece, including presentation materials and the knowledge to get an internship or entry level position in the industry. They should also feel comfortable creating almost any representational, non-organic object in 3D. This presupposes the interest and dedication of the student.

Our main software will be Autodesk's Maya, but the principals and practices could easily be applied to any other 3D modeling package. Maya is not only a 3D modeling program, but it is also a "hub" program. All things in production go in and come out from Maya. Course Name, Number, Semester, and Year Page 2 of 11

We will need to support our Maya endeavors with Adobe Photoshop, as well as, other programs. It is expected that you will have at least a cursory familiarity with PS. Technique beyond that will be learned in class.

Because of the nature of 3D, we will of necessity, have to spend lots of time on "technique" to arrive at realistic results. But our goal is not to create "Super button pushers"! You should never be distracted you from your primary mission to create good art! You will utilize all of your art training and add to it in this class.

Part of operating within a professional environment is the ability to accurately re-create the object you are given, whether it be realistically or whimsically, you must map to the reference as exactly as possible! This ability combined with meeting your schedule are PARAMOUNT!
As you develop and grow these "Hard" skills, be attuned to developing the more subtle, but no less important "Soft" skills! These include things like learning to give and take a "crit", getting along with others in a team environment, etc.

Learning Outcomes

Learn to use Autodesk Maya (or really any 3D package) to recreate non-organic objects in 3D.

Learn to use ancillary programs, such as Adobe Photoshop, etc., to aid in the creation of textured models that replicate the look and fidelity of the reference given.

Learn skills and working methods/ethos of industry pipelines, to create professional content that could be used in games or cinema and to do so in a timely fashion, while under pressure.

Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:

1. CLO1 - Model using a 3D package, any non-organic object in 3D, using current industry practices.
2. CLO2 - Create custom UV Mapping coordinates to facilitate the application of textures to their 3D objects.
3. CLO3 - Create custom textures in both Maya and Photoshop, that will b applied to their 3D models, making them appear realistic.
4. CLO4 - Prepare their 3D object and export it into a game engine.
5. CLO5 - Create appropriate presentation materials to show case their work in a professional portfolio/reel.
6. CLO6 - Further refine their understanding of art, and develop a strong set of "Soft" skills.

Required Texts/Readings

Textbook
None.

Other Readings

This book is crazy awesome! I use this all the time. It is a bit dated, but still relevant. It is the simplest and most concise reference I own for Maya! Highly recommend it.
“Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally 3 hours per unit per week with 1 of the hours used for lecture) for instruction or preparation/studying or course related activities including but not limited to internships, labs, clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus.”

Regular attendance for this class is critical. Since we are not using a text, ALL of the information will be presented in lecture format. Recordings of these lectures will be available for reference, **BUT should not be used as a substitute for regular attendance!**

Additionally, as the semester progresses, the assignments will be more cumulative in nature. Failing to attend and falling behind will make it very difficult to make up. Of course, exception and accommodation will be made for illness, etc.

It is very important to come and listen, take notes, and participate in class discussions and critiques. There is lots to be learned both formally and informally. I advise you not to discriminate in where and when your place your attention.

The Shrunken Head Man Club puts on a number of events during the semester. Students are encouraged to attend all events and be as active as they can be with SHM. A big part of your college experience will come from these events.

There are at least 2-3 events a semester, that involve artists and leading industry companies coming to campus. These events will be highlighted and their importance made known well in advance! Every encouragement will be made that students attend these events. I will subsequently be giving a light workload when they occur, freeing time for student attendance.

**Grading Information**

Every assignment will have a rubric associated with it, that will break down the grading, and give a detailed explanation for each portion that is being assessed. It will also assign a point total for each part, giving the student a clear idea of the weighting. An example is shown below.
Penalty for late or missed work: Work is considered late if it is not posted on CANVAS and/or the server before class starts! Always turn in what you have no matter how atrocious! Not turning in anything is an automatic F!! You will be graded down half a grade for late work, i.e. - if you earned a B, you would get a B-. 

Re-dos and extra Credit: There will be no re-dos and no extra credit, with the exception of the "Final" submissions for each assignment. I will accept re-dos for these assignments, up until the end of the semester. However, it will be on the student to make me aware of and re-sub and adjustment of the grade as appropriate.

Family Emergencies and other Crisis’s: All family emergencies or other life crisis’s will require a doctor’s note for verification. I will work with any student to adjust the curriculum to take into account any authenticated emergency. If possible, all efforts should be made to notify in advance.

It is expected that some form of communication in a timely fashion will be received by me regarding any difficulties. Do not drop out for weeks at a time and then expect to return to class without some notice of your difficulties.

Also, if you are feeling overwhelmed with school, please let me know and or seek out help at Student Services. I am happy to try and work something out, but you have to let me know! You are here to learn, not to suffer!

Incompletes: I will only give out an incomplete if you have or are experiencing a compelling family emergency and/or life crisis. You have to complete the work on your own and have one year to submit all final materials for consideration or your grade reverts to an F.

Grades: I will make every effort to have your grades updated daily/weekly on CANVAS, allowing you to stay up to date.

Grade Weighting: Your semester work, will comprise 80% or your grade with the other 20% representing your final assignment. The weight of individual assignment will vary from standard to double, with double being reserved for the final turn in. Some of the earlier assignment will receive only a half weighting. This is designed to graduate the weighting to ease the student into the curriculum and not penalize them early as they get their "sea legs" under them.

Classroom Protocol
I expect you to be on time and ready to work when class starts. All work due that day should be posted on CANVAS and on the server. Please do not wait until the last minute.

When I am lecturing I expect complete attention! I want all eyes on me. Using your cell phone at this time or accessing the internet on your computer is prohibited! During breaks and during lab time, it is acceptable to use socially media as long as it does not interrupt class.
Do not use lecture/crit time in class to hide in the back of the class and try to finish your work. This is a poor use of your time.

The taking of attendance will commence at the start time of class. I will call out your name several times and look for you in the classroom. If you are present raise your hand and say in a loud voice, “here!” If I receive no response, and I am unable to locate you visually, I will mark you absent. If you come in late, I will adjust the absent to a late. There will be no revisions of this record, period.

University Policies

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU’s policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See University Policy S90–5 at http://www.sjsu.edu/senate/docs/S90-5.pdf. More detailed information on a variety of related topics is available in the SJSU catalog, at http://info.sjsu.edu/web-dbgen/narr/catalog/rec12234.12506.html. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course and the following items to be included in the syllabus:

- “Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor’s permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.”
  - It is suggested that the green sheet include the instructor’s process for granting permission, whether in writing or orally and whether for the whole semester or on a class by class basis.
  - In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.
- “Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.”
CHEATING

Don’t do it! You are required to create your own content from scratch in this class, it is completely IMPERMISSIBLE to copy, reference, borrow, or otherwise use another student’s work or something you scrounged up on the internet and attempt to pass it off as your own work!!!

Maya has DNA. Everything you create has a finger print and if I get wind of anyone cheating, I will immediately, bring action against the transgressor. At the very least you will fail my class and at worst you could possibly be expelled from the university! See below...

Academic integrity

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy S07-2 at http://www.sjsu.edu/senate/docs/S07-2.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of their disability.

Student Technology Resources

Computer labs for student use are available in the Academic Success Center at http://www.sjsu.edu/at/asc/ located on the 1st floor of Clark Hall and in the Associated Students Lab on the 2nd floor of the Student Union. Additional computer labs may be available in your department/college. Computers are also available in the Martin Luther King Library. A wide variety of audio-visual equipment is available for student checkout from Media Services located in IRC 112. These items include DV and HD digital camcorders; digital still cameras; video, slide and overhead projectors; DVD, CD, and audiotape players; sound systems, wireless microphones, projection screens and monitors.

SJSU Peer Connections

Peer Connections, a campus-wide resource for mentoring and tutoring, strives to inspire students to develop their potential as independent learners while they learn to successfully navigate through their university experience. You are encouraged to take advantage of their services which include course-content based tutoring, enhanced study and time management skills, more effective critical thinking strategies, decision making and problem-solving abilities, and campus resource referrals.

In addition to offering small group, individual, and drop-in tutoring for a number of undergraduate courses, consultation with mentors is available on a drop-in or by appointment basis. Workshops are offered on a wide variety of topics including preparing for the Writing Skills Test (WST), improving your learning and memory, alleviating procrastination, surviving your first semester at SJSU, and other related topics. A computer lab and study space are also available for student use in Room 600 of Student Services Center (SSC).
Peer Connections is located in three locations: SSC, Room 600 (10th Street Garage on the corner of 10th and San Fernando Street), at the 1st floor entrance of Clark Hall, and in the Living Learning Center (LLC) in Campus Village Housing Building B. Visit Peer Connections website at http://peerconnections.sjsu.edu for more information.

**SJSU Writing Center**

The SJSU Writing Center is located in Clark Hall, Suite 126. All Writing Specialists have gone through a rigorous hiring process, and they are well trained to assist all students at all levels within all disciplines to become better writers. In addition to one-on-one tutoring services, the Writing Center also offers workshops every semester on a variety of writing topics. To make an appointment or to refer to the numerous online resources offered through the Writing Center, visit the Writing Center website at http://www.sjsu.edu/writingcenter. For additional resources and updated information, follow the Writing Center on Twitter and become a fan of the SJSU Writing Center on Facebook. (Note: You need to have a QR Reader to scan this code.)

**SJSU Counseling Services**

The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional psychologists, social workers, and counselors are available to provide consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit Counseling Services website at http://www.sjsu.edu/counseling.
Course Number / Title, Semester, Course Schedule

List the agenda for the semester including when and where the final exam will be held. Indicate the schedule is subject to change with fair notice and how the notice will be made available.

Course Schedule

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<tr>
<th>Week</th>
<th>Date</th>
<th>Topics, Readings, Assignments, Deadlines</th>
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<tr>
<td>1</td>
<td>08-21-17</td>
<td>No Class</td>
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<tr>
<td>1</td>
<td>08-23-17</td>
<td>First Day of Instruction</td>
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<td>2</td>
<td>08-28-17</td>
<td>Shiny Red Ball</td>
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<td>08-30-17</td>
<td>Morse Code, group</td>
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<td>3</td>
<td>09-04-17</td>
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<td>09-06-17</td>
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