

Course Syllabus for ATEC 3327 sec 501

Course Information

DIG LTG/TXTRG FOR COMP ANIMATION

ATEC 3327 Sec# 501

Wednesday 7:00 p.m. - 9:45 p.m.

RM ATEC1.102

<http://atec.utdallas.edu/~junechi>

Professor Contact Information

Joo Eun Chi

214-289-0603

jec045000@utdallas.edu

Tuesday kitchen lab 1:30-3

Call or email for an appointment

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Prerequisites:

ATEC 2382 [Computer Imaging].

ATEC 3317 [Intro to 3D Modeling]

Course Description

ATEC 3327 will explore lighting and texturing concepts and techniques for 3D computer animation. A fundamental understanding of render and design will be the main focus of this course.

Student Learning Objectives/Outcomes

Understand the fundamental principles of lighting and texturing computer-generated forms and develop artistic skills and technical skills and use both to produce creative forms.

Learn technical terms related to 3D lighting and texturing.

Enhance ability to discuss current issues related to 3D rendering and texturing.

Demonstrate the ability to offer both technical and aesthetic criticisms of the work of peers and self.

Required Textbooks and Materials

Advanced Maya Texturing and Lighting by Lee Lanier

Notebook/Sketchbook
Archive Material: Jump Drive, CD, or DVD

Assignments & Academic Calendar

Some assignments will have addition elements. Selected projects will require looking at various artist sites for research or for homework assignments.

However, there are three things that are nonnegotiable with hwk assignments.

- 1) Students must light and texture the assigned model and cannot alter the polys. A lighting and texture artist must do the best with what they have.
- 2) Plug-ins are banned. This is to ensure that everyone on equal footing to be graded for demonstrated mastery of Maya UV tools.
- 3) Using Mental Ray when Maya Software is required or vice versa. Again, this is also to ensure grading is on a level field.

Homework assignments will have project folders labeled correctly and will be dropped into the class folder BEFORE class. File name convention will be the following:

UTD ID_Hw#p1.ma

UTD ID_Hw#p2.ma

To Drop a file into the classdrop box you will need to do the following:

1) Goto start menu and click run

2) Type [\\atec01](#)

3) At connect to atec01 login type:

Username: medialab

Password: m0cap

4) Access Network Users/junechi/Public

5) Drag and drop your files into Drop folder

Homework assignments will be graded on the following:

- 1) Name and file convention (20%)
- 2) Quality of lighting and rendering (40%)
- 3) Execution of textures and UV maps(40%)

I DOWNLOAD THE PROJECT FOLDER AT 7:05pm! TURN YOUR STUFF IN PRIOR TO CLASS! LATE WORK WILL NOT BE ACCEPTED WITHOUT A VALID UNIVERSITY EXCUSE!

So if it's not a death in the family, last minute emergency, an out of town university event of something in the 10 o'clock news, forget it!

Tentative Course Schedule	Week Date	Topics	Required reading and tutorials the following week of class	Quiz	Assignment due for the following week of class
(Course Schedule is subject to change at the discretion of the instructor. Check periodically for updates.)	Wk 1 1/09	Lighting and the beginning of 3d texture intro, Lighting and color issues	Chapter 1, pages1-19 Supplemental Chapter 12 Understanding lighting, composition and color Chapter 2 pages 31-46		Get books and sketchbook <u>Hwk Assignment01</u> 3 point light 3 point light in warm and cool colors
	Wk 2 1/16	<u>Hwk 1</u> due before class starts! Class Critique: 3 point light, first run and in warm and cool colors Texturing, principles of UV mapping	Chapter 8 Pages 213-239		<u>Hwk Assignment02</u> Car UV layout
	Wk 3 1/23	<u>Hwk 1</u> due before class starts! Hypershade and texture commands Using Photoshop and Maya	Chapter 3 Pages 61-73	Quiz 1	<u>Hwk Assignment02</u> Car Texture and lit
	Wk 4	<u>Hwk 2</u> due before			<u>Hwk</u>

1/30	class starts!	Chapter 4		<u>Assignment 3</u> UV layout head
Wk 5 2/06	<u>Hwk 2</u> due before class starts! Bump and specular maps	Chapter 4 Chapter 4 tutorial		<u>Hwk</u> <u>Assignment 3</u> Texture and light head
Wk 6 2/13	<u>Hwk</u> 3 due before class starts!		Quiz 2	<u>Hw</u> <u>Assignment 4</u> UV layout piggy bank And preliminary designs
Wk 7 2/20	<u>Hwk 4</u> due before class starts! Matching lights to environments	Chapter 3 page 73 Chapter 1 tutorial		<u>Hwk</u> <u>Assignment 5</u> Compositing pig to environment – part 1
Wk 8 2/27	<u>Hwk 5</u> due before class starts!		In class critique and corrections	
Wk 9 3/05	Color and design theory		Midterm Exam	<u>Hwk</u> <u>Assignment 6</u> UV layout and Texture kitchen
Wk 10 3/12	Spring Break	Chapter 10 Chapter 11 Chapter 11 tutorials		
Wk 11 3/19	<u>Hwk 6</u> due before class starts! Lighting for mood and time			<u>Hwk</u> <u>Assignment 6</u> Lighting kitchen morning, noon, and night,

	Mental Ray			
Wk 13 3/26	Week for resubmit only (tentative)			
Wk 14 4/02	Final Project announcement Occlusion Rendering in Layers			Milestone01
Wk 15 4/09	Composites			Milestone02
Wk 16 4/16	After Effects			Milestone04
Wk 17 4/23	Final Critique			Milestone04 Resubmit due wed 4/30 by 10pm

Grading Policy

Grading policies

Students must demonstrate satisfactory achievement of course objectives through fulfillment of course assignments and by contributing to class discussions and critiques. Course assignments will require students to use software and equipment available at the ATEC computer labs. Course evaluation will be based upon the following.

Point Required for Grade:

- A 90 - 100%
- B 80 - 89%
- C 70 - 79%
- D 60 - 69%

F Below 60% is failing

Total Possible Points:

- 6 HwAssignments, 5% each (Subtotal 30%)
- 4Quizzes: 5% each (Subtotal 20%)
- Mid-term exam: 20% of the course grade.
- Final Project: 30%
- Total: 100%.

Course & Instructor Policies

Make-up Exams: Makeup exams are available only to students who have a legitimate excuse for missing an exam, such as illness, scheduled job interview out of town, athletic team event out of town, death in the immediate family, etc. If you know in advance that you must miss an exam, give a written notice to the instructor in advance, and bring documentation to support your anticipated absence. If you miss an exam unexpectedly because of last minute illness or accident, submit a note to the instructor when you return to campus (or as e-mail attachment if you will be away for some time) with documentation of your situation.

Class Attendance: All students are required to be on time and in attendance for each and every class. Two (2) absences are allowed as personal or sick leave for this semester. Students will receive one letter grade reduction for three (3) absences. Students who accumulate four (4) absences or more should consider withdrawing since four (4) absences will result in a failing grade ("F ") for the course.

Presentation Attendance: All students are required to attend specified lectures given by guests on the subjects related to this course during the semester. There may be one, two, or three lectures that you are required to attend. The instructor will give information about the lectures (e.g., time & location) as early as possible. If a required lecture is scheduled outside the regular class time and if you will not be able to attend the lecture because of a time conflict with another class that you are enrolled or with your work, submit a written notice to the instructor in advance; Otherwise, missing a presentation will be treated as one absence in the manner described in Class Attendance section above.

Punctuality: It is important to attend class on time. Persistent and reoccurring tardiness is disrespectful to the instructor and to your peers. Arriving to class more than 15 minutes late twice will be counted as one (1) absence. Every additional late arrival will result in one (1) absence. Students may leave early with instructor's permission; however, such occurrences should be very infrequent.

Late Assignments: Adherence to deadlines is expected. It is the individual student's responsibility to keep track of the goals and deadlines and to present the work to the class and instructor on the specified dates. Late assignments will not be accepted without a valid university excuse.

Classroom citizenship:

- Cell phones and pagers must be powered off during formal class hours.
- Students will not use the computers for personal reasons (e.g, check personal email, surf web) during class time.

Do not talk when others are talking, including the instructor and fellow students. Any of the above is grounds for dismissal.

Field Trip Policies

Off-campus Instruction and Course Activities

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at the website address http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean. Below is a description of any travel and/or risk-related activity associated with this course.

Student Conduct & Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the

following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grade Policy

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.

Disability Services

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:

The University of Texas at Dallas, SU 22

PO Box 830688

Richardson, Texas 75083-0688

(972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

