

ATEC 4348***Modeling and Texturing II***

Todd Fechter

Term: Fall 2012

Meeting Time: R 11:30–2:15pm

Contact Info

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Office Hours: By appointment

Class web reference: http://atec.utdallas.edu/atec_course_materials (netID and password required)

Course Description:

This course will build on the modeling and texturing concepts introduced in ATEC 3317. Modeling methods presented will encompass both hard surface and organic modeling, with the course focus leaning towards organic character modeling. Digital sculpting workflows will be discussed as well as 3D texture painting.

Course Requirements:

ATEC Digital Imaging

ATEC 3317

Course Structure:

This class will consist of lectures, demonstrations, constructive critiques and class discussions.

****This class will make use of an online video repository. This information, videos, and content is designed to help reinforce class topics and principles. Students are recommended to use this information/videos/content as a reference to better their own individual work, and not necessarily create/replicate/recreate the assignment/file verbatim. Should a student choose to create/replicate/recreate the assignment/file verbatim, they do so realizing that while acceptable, it may be detrimental to their continued growth.**

Optional Textbooks:

Stop Staring Facial Modeling and Animation Done Right by Jason Osipa

Course Materials:

Pen/Pencil

Notebook/Sketchbook

Archive materials (cd, dvd, flash drive, etc..)

Grading Policy:

Students are expected to turn in completed assignments which follow all assignment requirements. Failure to turn in complete work will result in a significant lowering of the grade. All assignments submitted fulfilling the specified requirements will earn a starting grade of "C". The manner in which the requirements were carried out (i.e. mesh cleanliness, texture detail, model proportions, etc...) will determine "B" to "A" level work. This grading reflects the demands of a professional animation environment where simply completing the assignment is not enough. The manner in which it is completed, and how it deals with the challenges presented, determines it's success.

Points Required for Grade:

- A 162 - 180
- B 144 - 161
- C 126 - 143
- D 108 - 125
- F Below 108 is failing

Assignment Point Values:

- Assignment 1, 2, 3: 10 points
- Assignment 4: 40 points (cumulative over 4 weeks)
- Assignment 5: 30 points (cumulative over 3 weeks)
- Final Project: 60 points (30 pts Model, 30 points Textures)
- Total: 180 points

Course Schedule

Week 1 (Aug. 28): Understanding facial mesh flow

- Assignment 1 – Simple face (10 pts)

Week 2 (Sept. 4): Facial modeling Pt. 2

- Assignment 2 – Simple face 2 (10 pts)

Week 3 (Sept. 11): Facial targets and phonemes

- Assignment 3 – Facial target library (10 pts)

Week 4 (Sept. 18): Modeling a simple character

- Assignment 4 – Simple biped (10 pts)

Week 5 (Sept. 25): Refining a simple character

- Assignment 4B – Simple biped 2 (10pts)

Week 6 (Oct. 2): UV layout, 3D painting techniques

- Assignment 4C – Textured biped (10 pts)

Week 7 (Oct. 9): Character detailing

- Assignment 4D – Textured biped 2 (10 pts)

Week 8 (Oct. 16): Complex realistic human bust

- Assignment 5 - Realistic human bust

Week 9 (Oct. 23): Complex realistic human bust Pt. 2

- Assignment 5B – Realistic human bust

Week 10 (Oct. 30): Complex realistic human bust Pt. 3

- Assignment 5C – Realistic human bust

Week 11 (Nov. 6): TBD

- Assignment 6 – Final Project Model

Week 12 (Nov. 13): Final Project Review

- Assignment 6 – Final Project

Week 13 (Nov. 27): Final Project Review

- Assignment 6 – Final Project

Week 14 (Dec. 4): Final Project Review

- Assignment 6 – Final Project

Week 15 (Dec. 11): Final project presentation (last class meeting)

Assignments: All assignments for this course require a significant amount of time outside of class. Students should set aside 10-20 hours per week in order to complete assignments to the level expected. 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. Accommodations for late/incomplete assignments will only be made when issues such as illness, scheduled job interview out of town, athletic team event out of town, death in the immediate family, etc arise. Please contact me immediately if you will be unable to complete an assignment due to one of the factors listed. Late assignments may or may not be accepted based upon the discretion of the instructor and the situations involved.

Bonus Points: There *may* be opportunities for students to resubmit improved work for extra consideration. In order to be eligible the student must have turned in the assignment on its original due date and fulfilling all specified requirements. Revisions should be based upon class critique feedback.

Class Attendance: All students are required to be on time and in attendance for each and every class. Due to the large amount and pace of the information covered, a single absence can result in a significant obstacle for students. Missing three to four classes will make it nearly impossible to keep up with the course, and will most likely lead to failure due to the inability to complete the weekly assignments.

Academic Dishonesty:

An allegation of academic dishonesty is an assertion that a person has violated a rule. Investigating whether or not such an assertion is true is one role of the Judicial Affairs Office. Cheating, plagiarism, or file manipulation of any kind will not be tolerated in this course.

<http://www.utdallas.edu/deanofstudents/managing/>

Copyright Violations:

It is a federal crime to reproduce copyrighted software. Anyone caught reproducing software from the UTD labs will be subject to disciplinary action. In addition, anyone caught reproducing outside software in the lab will automatically lose all lab privileges and will be subject to other disciplinary action as deemed necessary.

Email Use:

All email communication for the course must be carried out through UTD email only. There will be no exceptions.

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.

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.

<http://www.utdallas.edu/studentaccess/grievance/>

Incomplete Grades:

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.

Student AccessAbility:

The Office of Student AccessAbility aims to enhance the quality of life for students by removing disability barriers and providing equal access to help them reach their academic goals. 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.

<http://www.utdallas.edu/studentaccess/>

****These descriptions and timelines are subject to change at the discretion of the instructor.**