ATCM 3306 Modeling and Texturing 1
Josh Carey
Term: Fall 2025
Meeting Time: Friday 10:00 am - 12:45 pm
Room: ATC 2.605

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Course Modality and Expectations

Instructional Mode: Traditional

Expectations: Demonstrations and in-class exercises will be given in class each week.
Extra Videos and homework assignments will be made available on eLearning.
Students are expected to watch the additional videos each week and to complete assignments as directed on eLearning.

Course Description:

This course will introduce students to basic principles and techniques dealing with the modeling and texturing of hard surface geometry. An in depth examination of Maya 3D animation software will also be covered.

Course Requirements:

Pre-requisites: ATCM 2310 or equivalent

Course Structure:

This class will consist of demonstrations, videos, and assignments.

Course Objectives:

By the end of this course, students will be able to:

- Generate models and textures using Autodesk Maya, a computer graphics software.
- Identify the purpose of creating clean mesh flow within models.
- Use UV unwrapping techniques to unwrap 3D models for hand painted textures.
- Develop realistic looking materials and textures using Maya and a texturing application together.
- Evaluate critically the quality of models and textures by others.
- Construct a hard surface 3D modeling and texturing portfolio.

Required Textbook:

There is no required text for this course. The primary learning resources for this course will be video material available at Vimeo.com.

Required Materials:

Access to a portable storage device such as Box or a flash drive, to store your files.

Course Materials:

The eLearning website will be used for links to Vimeo videos, homework assignments, example files, special class announcements and posting of grades. All student assignments, including homework, should be placed in the shared folder at Box.com.

Grading Policy:

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. Grades and instructor feedback will be presented via eLearning and Box. Course evaluation will be based upon the following.

Points Required for Grade (Grade percentages do not round up):

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A  93 - 100
A- 90 - 92
B+ 87 - 89
B  83 - 86
B- 80 - 82
C+ 77 - 79
C  73 - 76
C- 70 - 72
D+ 67 - 69
D  63 - 66
D- 60 - 62
F  Below 60 is failing
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Assignment Percentage Values:

- Assignment 1: 10 percent of final grade
- Assignment 2: 10 percent of final grade
- Assignment 3: 25 percent of final grade
- Assignment 4: 30 percent of final grade
- Assignment 5: 25 percent of final grade

Class Attendance:

All students are required to be on time and in attendance for every class.
I WILL take attendance weekly, 10 minutes after class begins. If you are later than 10 minutes, you are considered absent, even if you arrive later. 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 withdrawal from the course due to four (4) absences resulting in a failing grade ("F ") for the course.

Late Assignments:

Adherence to deadlines is expected. It is the student's individual responsibility to keep track of the goals and deadlines and to present the work to the class and instructor on the specified dates. Students are given ample time to complete assignments before the due date. **Technical issues will NOT be given extensions!** Late assignments are not accepted. ALWAYS SUBMIT WHAT YOU HAVE COMPLETED! A partial grade is always better than a 0.

Class Participation and Classroom Citizenship:

Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Communication

This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and a web conferencing tool may also be used during the semester. For more details, please visit the Student eLearning Tutorials webpage for video demonstrations on eLearning tools. Student emails will be answered within 3 working days under normal circumstances.

Course Schedule:

Descriptions and timelines are subject to change at the discretion of the instructor

Class 1: Intro to Polygonal Modeling - Proxy Modeling + tools
Class2: Intro to Edge flow
Class 3: Realtime Modeling: Level of Details
Class 4: Building and Snapping
Class 5: Intro to Render Resolution/Smoothed Modeling
Class 6: Smoothed Modeling Continues
Class 7: Simple Edges
Class 8: Intermediate Edges 01
Class 9: Intermediate Edges 02
Class 10: Intro to UVs
Class 11: Intro to Texturing and Texture Callouts
Class 12: Intermediate Texturing / Sculpting and organic modeling intro
Class 13: Modular Assets 01
Class 14: Modular Assets 02
Class 15: Assignment 05 Final Scene DUE to BOX by End of Class on Week 15.
No late submissions accepted!

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

The instructor may record meetings of this course. Any recordings will be available to all students registered for this class as they are intended to supplement the classroom experience. Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements on the Getting Started with eLearning webpage.

Course Access and Navigation

This course can be accessed using your UT Dallas NetID account on the eLearning website.
Please see the course access and navigation section of the Getting Started with eLearning webpage for more information.
To become familiar with the eLearning tool, please see the Student eLearning Tutorials webpage.

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The eLearning Support Center includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online eLearning Help Desk. The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Academic Support Resources

The information contained in the following link lists the University's academic support resources for all students. Please go to Academic Support Resources webpage for these policies.

Computer and Software Access

ALL the programs needed for this course will be available in the ATEC lab computers. Not having the software at home or not having a sufficient personal computer is not a reason to miss assignment deadlines.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please go to UT Dallas Syllabus Policies webpage for these policies.