

3-D Modeling II



Course: ARTV2345

ARTV 2345: 3-D Modeling II

Section: 8001

Fall 2009 3 credit hours | 2 Lecture, 4 Lab | 9:00-11:30a Monday/Wednesday | Room: TRT250

Instructor:

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Richland phone: 972-238-6830

Office Number: T244B

Office Hours Posted on Office Door

B101 & T244B

Prerequisite:

Suggested prerequisite – IMED 1301: Introduction to Multimedia

Course Description:

A studio course focused on advanced 3-D modeling and rendering techniques using industry standard software: spline modeling, patch modeling, and other organic modeling techniques; learn advanced use of camera settings, lighting, and surfacing to create detailed environments; cover advanced topics such as particle and volumetric effects, and setting up a model with weight maps, hierarchies, bones, and constraints.

End-of-Course Outcomes:

After successful completion of this course, the student should be able to:

Build seamless organic models; rig models for animation; and build complex environments with detailed surfaces and advanced lighting techniques.

A NOTE FROM THE INSTRUCTOR |

ARTV 2345 is designed as a cooperative learning course where each student is encouraged to work with others to increase critical thinking and promote collaborative teamwork.

OBJECTIVE SHEETS |

Each module is accompanied with a project objective sheet listing objectives, learning outcomes, directives, resources, due dates and grading rubrics.

FORMAL JURY & ASSESSMENT |

At the conclusion of each module, the student is responsible for presenting their work in a jury format where the students, faculty and visiting guests will discuss the work in an open format.

REQUIRED MATERIALS | SOFTWARE | SUPPLIES

This course is designed to be used with Softimage and Valve's Source Software Development Kit. You will have access to both of these software packages in class as well as the lab. You will be assigned a free school issued "STEAM" account. You will use this account to access the Source SDK. In addition, you are responsible for signing up for a free personal "STEAM" account. You will use this account to purchase your videos from Noesis Interactive. See instructions below on how to purchase your Noesis videos.

REQUIRED NOESIS VIDEOS |

1. 3D Content Creation: Softimage

MATERIALS |

- 11X14 Acid Free Sketchbook (Perforated pages and ring bound)
- #2 Pencils
- 3 - 5 Ebony Drawing Pencils
- Jump Drive or External Hard Drive (Buy the most space you can afford)
- Headphones (No longer offered in Lab)

IMPORTANT! You only need to download the "STEAM" software once from

<http://store.steampowered.com>

ORDERING YOUR VIDEOS |

1. Navigate your web browser to:
http://education.noesisinteractive.com/us_tx_richland.html
2. Press the "Register" button in the top right corner and submit the required information.
3. Press the "Login" button and login using your new account
4. Add the appropriate course to your shopping cart and press "View Cart" to proceed through checkout process.

*** If you do not have access to a credit card click the option to "Pay by Money Order" and complete the provided order form.**

5. Steam product keys are typically sent within 1 business day.

ACCESSING & DOWNLOADING YOUR VIDEOS |

6. Login to your Steam account. If you do not have an account download the client from steampowered.com and create a new one.
7. Switch to the "My Games" tab and press the bottom button for 'Activate a product on Steam'.
8. Read and accept the Steam terms and conditions, then press next and enter the product key provided below.
9. Switch to the "Tools" tab and right click to install each of the activated products.
10. Once downloaded double click to launch or right click and select "Launch Game"

SCANS Skills:

The Secretary's Commission on Achieving Necessary Skills (SCANS) was appointed by the Secretary of Labor to determine the skills people need to succeed in the world of work. Richland College is determined to prepare you with the knowledge and skills you need to succeed in today's dynamic work environment. Towards this goal, these workplace competencies and foundation skills have been designed into the curriculum for this course:

- Writing: *Communicate thoughts, ideas, information and messages in writing and create documents such as letters, directions, manuals, reports, graphs and flow charts.*
- Visualize: *Organize and process symbols, pictures, graphs, objects and other information.*
- Apply technologies to task: *Understand overall intent and proper procedures for setup and operation of equipment.*
- Human Resources: *Assess skills and distribute work accordingly, evaluate performance and provide feedback.*
- Teach others new skills
- Exercise Leadership: *communicate ideas to justify position, persuade and convince others, responsibly challenge existing procedures and policies.*
- Negotiate: *work toward agreements involving exchange of resources, resolve divergent interests.*
- Apply Technologies to Task: *understand overall intent and proper procedures for setup and operation of equipment.*

Required Lab:

Students are required to spend at least 1 extra hour per week outside of class working on projects. Lab assistants and faculty are usually in the lab to answer questions, however tutoring is not available in the lab.

Lab time has been built into this course during the total class time.

Lab Hours:

The Multimedia Learning Center (972-238-6001) is located in Thunderduck Hall, T246.

Hours for the Fall semester are:

- Monday - Thursday: 9:00 am to 9:45 pm
- Friday: 9:00 am to 4:45 pm
- Saturday: 12:00 pm to 4:45 pm

All Multimedia (credit and continuing education) students must show a Student ID Card to use the lab and check out any equipment. IDs are available at the Student ID Office, T141.

Course Modules:

Module 1 Learning Outcome Topics |

- Introduction to Softimage
- Primitives
- Camera Navigation
- Camera Memory
- Property Editors
- Explorer & Schematic
- Introduction to Hierarchies/Exercise
- Transform Options
- Selection Options
- Modeling Interface
- Groups & Layers
- **Independent Project & Student Collaboration**

Module 2 Learning Outcome Topics |

- Introduction
- Component Selection
- Tweaking Components
- Proportional Tool
- Clusters
- Material Basics
- Curves
- Modeling from Curves
- Normals
- Polygon Modeling Tools
- Revolution Tool
- Duplicate Tool
- Clone Tool
- Loft Tool
- Polygon Subdivision Surface Modeling
- **Independent Project & Student Collaboration**

Module 3 Learning Outcome Topics |

- UV Projection
- Source Clips
- Compositing, Editing: Revising & Refining
- Sound Design
- **Independent Project & Student Collaboration**

Grading Procedure & Course Layout:

Cheating and Stealing of unlicensed software will not be tolerated. Integrity and honesty is everything!

This course is divided into three parts.

Part One Exercises | 30%

Exercises consist of work in and outside of class. Exercise assignments include: Video & Software Assignments, Papers, Journaling, Class Discussions/Reflections etc.

Part Two | Projects & Juries 40%

You will be provided an objective sheet for each project detailing directives, learning outcomes, resources, due dates and assessment components. Upon completion of a project, you are responsible for presenting this project in a formal Jury amongst your fellow classmates.

Part Three | Accountability 30%

The accountability portion of your grade consists of the following: Attendance, Class Participation, Attitude, Motivation, Commitment, Portfolio Development, Student Collaboration etc.

Grading Legend

A = 90-100	Exercises	30%
B = 80-89	Projects & Juries	40%
C = 70 – 79	Accountability	30%
F = <70		

See Attendance Policy Below:

PLEASE NOTE! Grade reports are no longer mailed. Convenient access is available online or by telephone. Use your student identification number when you log in to eConnect or call Touch Tone Services.

Web Site address: <http://econnect.dccd.edu> Telephone number: 972-613-1818.

Academic Calendar:

2009 Fall Semester Multimedia Calendar: Monday -Thursday classes

August 24 (M) - All Classes Begin

August 29 (Sa) - First Saturday the Multimedia Lab will be open.

September 5 (Sa) to September 7 (M) - Labor Day Holiday - campus closed, including lab.

September 5 (Sa) - 12th Class Day for Monday - Thursday classes. Last day to drop a course without receiving a "W" grade on transcript.

November 12 (R) - Last Day to Withdraw with a Grade of "W", Monday - Thursday classes.

November 26 (R) to November 29 (Su) - Thanksgiving Holiday - campus closed, including lab.

December 6 (Sa) - Last day lab is open for the semester.

December 7 (M) to December 10 (R) - Final Exams Week

December 10 (R) - Semester Ends

Drop Date:

September 5 (Saturday) is the last day to drop from this course without receiving an automatic "W" and without the course reflecting on your transcript.

Withdrawal Date:

November 12th (Thursday) is the last day to withdraw from this course with an automatic "W".

Withdrawal Policy:

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar's Office by the semester's withdrawal date. Failure to do so will result in your receiving a performance grade, usually an "F." If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a "W" (Withdraw) in each class dropped.

You may drop a course at the Admissions Office (T170), the Advising Center (T180) or the BTEC Advising Center (T162). Please consult with your instructor if you are thinking of dropping the course.

For more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Student Records office at 972-238-6100 or 6101 (Thunderduck Hall, T170), or contact the division office.

Six Drop Policy:

STOP BEFORE YOU DROP!

For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop.

You may drop no more than six (6) courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions.

Remember that once you have accumulated six (6) non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access:

<https://www1.dcccd.edu/6drop>

Repeating this Course:

Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 Semester. See Third Attempt to Enroll in a Course at

<http://www.dcccd.edu/thirdcourseattempt/>

Academic Honesty:

Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion.

As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog.

<https://www1.dcccd.edu/cat0506/ss/code.cfm>

ADA Statement:

If you are a student with a disability and/or special needs who requires accommodations, please contact the college Disability Services Office at 972-238-6180 (Voice/TTY), visit Thunderduck Hall, suite T120, or go to

<http://www.dcccd.edu/Current+Students/Student+Services/Disability+Services/>

(CTRL + Click to access “Current Students” site to “Student Services” to “Disability Services”)

Religious Holidays:

Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within a reasonable time after the absence.

Campus Emergency Operation Plan:

Richland College and the Dallas County Community College District have developed policies and procedures for dealing with emergencies that may occur on campus.

To familiarize yourself with these procedures, please take time to watch the overview video: http://video.dcccd.edu/rtv/DO/emergency_dcccd.wmv

The complete Emergency Operations Plan can be viewed and printed at the following website: <http://www.rlc.dcccd.edu/emergency>

If you have questions or concerns, please contact the Richland College Office of Emergency Management. This office can be reached by phone (972/238-3794) or by e-mail (rlcoem@dcccd.edu).

Attention Financial Aid Students:

If you are receiving any form of financial aid, you should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Classroom Policies:

Please read the following classroom policies listed below.

Attendance Policy:

While Richland College does not have a formal attendance policy, students are expected to attend class regularly. If you know you will be missing class(es) this semester, please speak to your instructor about day(s) you will be missing so you can receive information on the lesson(s) and assignment(s) you will miss.

If you are unable to attend class, please email the instructor or leave a message for the instructor at the Adjunct Faculty Office at (972) 238-6140 BEFORE THE CLASS BEGINS.

Students who will be absent from class for the observance of a religious holiday will be allowed to makeup examinations or assignments missed that day IF their instructor was

notified not later than the 15th day of the semester. Please refer to the college catalog Student Obligations -- Attending Classes section.

It is imperative students arrive to class on time and remain in class the entire session each week.

Food and Drink Policy:

Except where otherwise determined by a faculty member, no eating or drinking is allowed in the classroom.

Web Server Posting Policy:

The Richland Student Web Server is open to all users of the World Wide Web. Any information students or instructors place in their files is readable by any user of the World Wide Web.

Computer/Internet Use Policy:

Currently enrolled Richland College students have access to the Multimedia Lab and classroom computers for Multimedia educational and instructional purposes only. Please use the Del Rio Computer Lab for non-multimedia activities.

Students using their own laptops must use the wireless connection in the Thunderduck Hall building and cannot use the Multimedia lab and classroom computer data lines to access the Internet.

You are required to show your Richland Student ID when requested by lab personnel. You are expected to follow lab policies as well as the Student Code of Conduct specified in the catalog.

Safety Policy:

Students should participate in this class in a safe, appropriate manner. We occasionally have to step over cords for the multimedia cart and/or computer equipment. We also need to watch out for boxes and paper, students' backpacks, etc. Students should begin to build good computing habits, designed to prevent eyestrain, carpal tunnel syndrome, etc.

Handheld Devices Policy:

Please turn OFF all electronic devices during class.

Participation Policy:

Course participation is required. Ask questions and be involved with the lesson.

Students should not surf the Net, play games, send emails or work on unrelated homework/projects during class. Students should not disturb your neighbors during lectures and demos.

End of Each Class Policy (for face-to-face classes):

When you leave class for the day, please...

1. Delete all your files from your workstation and empty the trash.
2. Shut down your computer using Windows Shut Down.
3. Turn off your monitor after computer has COMPLETELY shut down.
4. Pick up and throw away any trash around your seat.

Attention Continuing Education Students:

To receive a certificate for this course, you must make a grade of "C" or higher as a final grade. A grade average of 69% or lower is failing.

Continuing Education will not mail your certificate to you. If you do not receive your certificate the last day of class you will have to pick up your certificate at the Continuing Education Front Desk, T160.

Interactive Simulation & Game Technology & Multimedia Web Sites:

www.richlandcollege.edu/game

www.richlandcollege.edu/multimedia

The ISGT & Multimedia Learning Center is part of the Richland College School of Engineering, Business and Technology Division.

Disclaimer reserving right to change syllabus:

The instructor reserves the right to amend this syllabus as necessary.

Student Acknowledgement:

Please download, read and sign this [Student Acknowledgement](#) and turn it in to your instructor. Copy and paste the link below into your browser.

<http://www.mmlab2.rlc.dcccd.edu/calendar/StudentAcknowledgement.pdf>