COURSE SYLLABUS

Computer Aided Drafting & Design
Industrial Technology Department
Technical Education Division
South Plains College
Levelland Campus

Instructor: Jason R. Bush, AIA
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Email: jbush@southplainscollege.edu
Office Hours: M-Th: 4:00pm-5:30pm (by appt.)
F: 8:00am-12:00pm

COURSE INFORMATION

COURSE NUMBER	DFTG-1302-001
COURSE TITLE	Introduction to Technical Animation and Rendering
PREREQUISITE(S)	None
LOCATION	TA 207B
MEETING TIME	M/W 2:50P – 5:30P

TEXTBOOK   None

DESCRIPTION   This course is a basic study of technical computer 3D models and animation.

SCOPE   The scope of Introduction to Technical Animation and Rendering will be for sixteen weeks, which will include two (2) hours of lecture per week and four (4) hours of laboratory experience per week, for a total of ninety-six (96) contact hours per semester.

COURSE OUTCOMES   Identify basic terminology and concepts associated with the development of technical computer models and animation; create a technical 3-D simulation using lighting, cameras, materials, textures, views, and scenes; and demonstrate importing models and reference drawings from computer-aided design and/or solid modeling programs.

COURSE TOPICS
1) Introduction to SketchUp Pro 2023 and Chaos V-Ray
2) Basic 3D Modeling Techniques
3) Working with Architectural Objects
4) Materials and Textures
5) Lighting and Cameras
6) Daylight and Rendering
7) Animation and Digital Publishing
8) Digital Image Creation and Publishing

GRADING

WEIGHTS

			SCALE		
Attendance	**30%**			A	90 – 100%
Assignments	**40%**			B	80 – 89%
Final Project	**30%**			C	70 – 79%
				D	60 – 69%
				F	59% or Below

ASSIGNMENTS   Practical drawing, modeling, animation and/or research assignments will be periodically assigned to demonstrate proficiency in various topics covered in class. These assignments are to be completed during laboratory time and will be graded on but not limited to the following items:
1. Neatness
2. Correctness and Accuracy
3. Layer Management Criteria
4. Digital Image File Creation

5. Digital Content Creation
6. File Name Management and Publishing

FINAL PROJECT   The Final Project will be assigned near the end of the semester and will be used to demonstrate a practical proficiency in the various topics covered in class throughout the semester. The final project is intensive and will require multiple laboratory periods to complete.

CLASSROOM POLICIES

ATTENDANCE   **Three absences**, for any reason are allowed per semester. Your attendance grade will drop one letter grade for each absence over the allowable limit. Six or more absences will be grounds for the instructor to administratively withdraw the student from the course.

Late arrival (Tardiness), defined as not being present in class within 5 minutes of the start of class, will count as ½ absence. A maximum of *six late arrivals* are allowed per semester. Your attendance grade will drop one letter grade for each late arrival over the allowable limit.

If a student has not participated in a course in any form for a minimum of 3 weeks, without any communication from the student and is earning a solid "F", an administrative withdrawal will be considered. The student will be contacted and encouraged to initiate a student withdrawal. After an additional week, faculty will initiate an administrative withdrawal.

WITHDRAWAL   Any student wishing to drop this class should go through the proper procedure of initiating the withdrawal by obtaining a **drop form** from the Registrar's Office.

OTHER POLICIES   Food and drink will be allowed at a student's workstation as long as computers are not affected in a negative way. All drinks must be stored away from computer so as not to damage any component. All workstations must be thoroughly cleaned before a student leaves class.

Music is allowed in the classroom during lab time as long as it is played through headphones.

Cellphones are only permitted during lab time when used directly for research or class initiatives. If your cell phone rings or you need to make a phone call, please promptly excuse yourself from the class to address the call.

At the discretion of the instructor, a failing grade ("F") may be assigned to a student's overall course grade and/or the student's assignment grade in the case of academic dishonesty (cheating) and/or plagiarism due to the severity of the student's actions and disregard for the learning objectives of the course.

Students should adhere to all other standards established in the SPC Catalog found under *Student Conduct*.

ACCOMMODATIONS

Students can find statements regarding COVID-19 Protocol, Intellectual Exchange, Disabilities, Non-Discrimination, Title IX Pregnancy Accommodations, CARE (Campus Assessment, Response, and Evaluation) Team, and Campus Concealed Carry at https://www.southplainscollege.edu/syllabusstatements/.