3D ANIMATION
Course Syllabus

Course Number: 3DA-0098
OCAS Code: 8208
Course Length: 120 Hours
Career Cluster: Information Technology
Career Pathway: Interactive Media
Career Major(s): 3D Animator, Motion Graphics Artist

Pre-requisite(s): Fundamentals of 3D Motion Graphics

Course Description: Students will utilize advanced 3D animation tools and techniques to produce professional motion graphics.

Textbooks: Inspired 3D Short Film Production and The Art of the Storyboard

Course Objectives: A. Demonstrate Knowledge of 3D Animation
1. Convert real objects to animated objects through animation techniques.
2. Design complex graphics and animation, using independent judgment, creativity, and computer equipment.
3. Make objects or characters appear lifelike by manipulating light, color, texture, shadow, and transparency and/or manipulating static images to give the illusion of motion.
4. Demonstrate proficiency in working with special effects plug-ins.
5. Apply advanced techniques for textures, materials, and lighting with 3D animation software.
6. Demonstrate proficiency in developing professional motion graphics.
7. Select color and textures to enhance 3D graphics and/or special effects.
8. Interpret how different light sources affect a scene or object and create effective lighting.
9. Transform objects through translation, rotating, and scaling.
10. Apply animation techniques to objects.
11. Render images to create desired results.
12. Apply 3D animation solutions for interactive media presentations.
13. Export 3D animations for a variety of applications.

ODCTE objectives

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.
Grading Procedures:
1. Students are graded on theory and shop practice and performance.
2. Each course must be passed with seventy (70%) percent or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment:
Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit:
The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility:
The student must maintain a grade point average of 2.0 or better.