COLLIN COLLEGE
DIVISION OF FINE ARTS
COURSE SYLLABUS

Course Information

Course Number: GAME 2336

Course Title: Lighting, Shading and Texture

Course Description: Lighting, shading, and texture painting for 3D models using digital painting techniques. Emphasizes lighting, shading, and texture creation of limited resolution to increase system performance for digital games and simulation models. Lab required.

Course Credit Hours: 3
Lecture Hours: 2
Lab Hours: 4

Prerequisite: ARTV 1345 or consent of Instructor

Student Learning Outcomes:

- **State Mandated Outcomes:** Upon successful completion of this course, students will:
  1. Explain the fundamentals of color and lighting theory.
     (SCANS: F1-F16, C1, C3, C5-C19)
  2. Identify core concepts of 3D texturing such as transparency, specularity, reflectivity, and luminescence.
     (SCANS: F1-F16, C1, C3, C5-C19)
  3. Develop effective materials for models while conserving resources.
     (SCANS: F1-F16, C1, C3, C5-C19)
  4. Create surface shaders, tile textures, and displacement and bump maps that convey desired style and mood.
     (SCANS: F1-F16, C1, C3, C5-C19)

Secretary's Commission on the Acquisition of Necessary Skills (SCANS)- SCANS skills are a group of foundational skills and workplace competencies that the Secretary's Commission on the Acquisition of Necessary Skills established as vitally important for workplace success in the 21st century. In Collin's workforce programs, the SCANS skills are developed and reinforced throughout the curriculum to provide students with an opportunity to hone these skills/competencies in the context of their education. Over the course of an entire degree program, the successful student is expected to demonstrate all of the SCANS skills and competencies as part of their education. The SCANS Foundation Skills and Workplace Competencies are described at: http://www.collin.edu/academics/programs/Workforce_SCANS_Skills_Syllabi_Code_Key.pdf

Withdrawal Policy: See the current *Collin Registration Guide* for last day to withdraw.

Collin College Academic Policies: See the current *Collin Student Handbook*

Americans with Disabilities Act Statement: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.