

**COURSE SYLLABUS**  
Southeast Missouri State University

Department of Industrial and Engineering Technology

Course No.: **TG 480**

Title of Course: **Advanced Industrial Animation**

**New, Fall 2005**

**I. Catalog Description and Credit Hours of Course:**

Advanced Industrial Animation will build on students' knowledge of applied three-dimensional product modeling by allowing them to learn advanced modeling techniques, lighting techniques, applied shading, motion dynamics and controllers and particle systems. Students will also study pre-production design, development, documentation and project management for industrial animation projects. (3 Credit hours; Contact hours - 1 hour lecture, 4 hours laboratory).

**I. Prerequisite (s):** TG 380 (C or better)

**III. Course Objectives:**

Upon completion of this course, the students should be able to:

- A. Create 3 industrial/commercial quality 3D models/animations (at least 60 seconds)
- B. Communicate using relevant 3D modeling and animation terminology
- C. Manage an animation project effectively and efficiently
- D. Develop and maintain accurate project management documentation
- E. Make professional-quality PowerPoint presentations to internal and external clients
- F. Work effectively as a team member

**IV. Expectations of Students:**

- A. Class attendance and participation are required, both lecture and lab.
- B. Students are required to read the assigned chapters for discussion and lab.
- C. Assignments are designed to be completed in class. The instructor reserves the right to refuse completed work if student's attendance is inadequate to insure originality of work.
- D. Assignments will only be accepted on the due dates provided unless previous arrangements are made or student provides a written medical doctor's excuse.
- E. Students are expected to complete all assignments.
- F. Student work will be completed in accordance with Code of Student Conduct (<http://www6.semo.edu/judaffairs/code.html>).
- G. Assignments may not be turned in to department secretary.
- H. No assignments are to be turned in Finals' Week.
- I. Cell phones, pagers, etc. must be turned off in class.
- J. In a professional environment, work areas are kept clean. In keeping with a professional attitude toward fellow students, always clean your area before leaving.
- K. Headsets are not allowed during class time including lab time, unless approved by the instructor.
- L. Students are responsible for removing their personal work from the computers each day.

**V. Course Content or Outline:**

**Topics Addressed in Course**

	<b>Time on Topic</b>
A. Advanced 3D modeling and animation	2 wks
B. Advanced maps and materials	2 wks
C. Industrial/commercial animation standards	2 wks
D. Communicating effectively with internal and external clients	2 wks
E. Project documentation methods and materials	2 wks
F. Team management	3 wks
G. Professional presentation methods	2 wks

**VI. Textbook(s) and/or Other Required Materials or Equipment:**

- A. Dutton, Paicius & Doran (2005). Autodesk 3ds Max 8 Revealed. Course Technology, Inc.
- A. CD-R disk (2) and a flash/jump drive

**VII. Basis for Student Evaluation:**

- A. Projects – 30%  
Student projects will include the design and development of components used in the development of an industrial/commercial quality animation as well as a full-scale product animation similar to those used at trade shows and kiosks.
- B. Midterm Exam/Quizzes – 20%  
A midterm exam and frequent quizzes will be given to assess whether students are attending to the assigned readings and properly processing all material presented via lecture/demonstration.
- C. Final Project Presentation– 50%  
The final project will be completed over the course of 6 weeks and will include both the design and development of an animation as well as documentation used for successful project management.  
  
The final project will be presented in a formal and professional manner by team members using PowerPoint. Student presentations will be attended by students, faculty, and campus and industrial leaders from the area.
- D. Evaluation is based on a total cumulation of points earned on all assignments and reflected as a percentage of 100.

**Grading Scale**

- A= 100 - 90%
- B= 89 - 80%
- C= 79 - 70%
- D= 69 - 60%
- F= Below 60%