Title of Course: Advanced Industrial Animation

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:

<table>
<thead>
<tr>
<th>Topics Addressed in Course</th>
<th>Time on Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Advanced 3D modeling and animation</td>
<td>2 wks</td>
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<tr>
<td>B. Advanced maps and materials</td>
<td>2 wks</td>
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<tr>
<td>C. Industrial/commercial animation standards</td>
<td>2 wks</td>
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<tr>
<td>D. Communicating effectively with internal and external clients</td>
<td>2 wks</td>
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<tr>
<td>E. Project documentation methods and materials</td>
<td>2 wks</td>
</tr>
<tr>
<td>F. Team management</td>
<td>3 wks</td>
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<tr>
<td>G. Professional presentation methods</td>
<td>2 wks</td>
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</tbody>
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VI. Textbook(s) and/or Other Required Materials or Equipment:


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%