CS 4371: Game Development II

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Course Description
This course describes the development of original computer games, including content creation strategies, programming, component testing and development and the use of many of a “game engine” to organize and develop game ideas.

Required materials (i.e. textbooks, software, etc)
Optional Course Packet is available in the ASU Bookstore.

- You must have an adequate computer and Internet connectivity in order to participate fully in the class. A table describing supported browsers can be viewed on Blackboard's support site.

Prerequisites
CS 3371 Game Development I

Technical skills required for the course
Students must be able to operate a computer and have the necessary technical skills to navigate around a web page.

Time spent on this course
- Students can expect to spend a minimum of 6 hours per week to complete all the readings and assignments.
- The time needed for adequate study and understanding of the course material, as well as discussion posts and critical thinking for all exercises and papers amounts to between six and seven hours per week.
Goals, Objectives, and Outcomes

Demonstrate the ability to develop and describe the parts and components of a computer game, including graphics, audio, animations, dynamics and logic.

Method of Assessing Outcomes

Demonstration and presentation of an original game with these components:

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Multiple levels/scenes</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>GUI buttons for start/stop and to set game parameters</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Background music and Sound Effects</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>Animations</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>Scripted Raycasts</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Scripted Collider/Collision Trigger events</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td>Scripted Instantiation (of prefabs)</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>Particle systems</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>NavMesh</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>Physics Joints</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td><strong>Total points:</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

Grades

Grades on based on percentage of components achieved.

Criteria for Grading:

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

Final Exam

- This course does not require a final examination.

Administration

- Students may receive occasional emails from the course instructor and are expected to respond promptly.

- Failure to participate or communicate on the part of a student will result in an appropriate reduction of your grade and possibly in your failure of this course.

Late work

Late assignments will be considered at the discretion of the instructor, but as a general rule a late assignment is worth at most 80% of its original value if it is posted up to one week late, and at most 50% if it is more than one week late. Please submit your assignments on time and stay in sync with the flow of the class.
Policy on incompletes

- From the ASU Catalog:
  The grade “I” is given when the student is unable to complete the course because of illness or personal misfortune. An “I” that is not removed before the end of the next long semester automatically becomes an “F”. Students will be allowed one year to remove a grade of “I” before it automatically becomes an “F”. To graduate from ASU, a student must complete all “I”s.

University Policies

Academic Integrity
Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding and complying with the university Academic Honor Code and the ASU Student Handbook.

Accommodations for Disability
The Student Life Office is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student's responsibility to initiate such a request by contacting the Student Life Office at (325) 942-2191 or (325) 942-2126 (TDD/FAX) or by e-mail at Student.Life@angelo.edu to begin the process. The Student Life Office will establish the particular documentation requirements necessary for the various types of disabilities.

Student absence for religious holidays
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.