CM 242 Video Game Design II
3 Credits, CRN 62418
Mon/Wed 10:00 - 12:05

INSTRUCTOR: Mr. Kaleiohu Lee
OFFICE: Manaleo 121
OFFICE HOURS: Mon/Wed 12:05 - 1:05
TELEPHONE: (808) 387-8777
EFFECTIVE DATE: Spring 2018

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O‘ahu’s Ko‘olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

This course picks up where CM 142 left off. In addition to creating games at a higher technical and aesthetic standard, presentation skills (as in "presentation to potential investors") are emphasized. (3 hours lecture)
Pre-Requisite(s): Credit for CM 142
Recommended Preparation: Algebra, Geometry, Trigonometry, basic Javascript, basic C# scripting.

STUDENT LEARNING OUTCOMES

- Create and work with basic 3D assets in Unity 3D
- Write programming scripts, applicable to gaming, in C# language
- Publish games to mobile and web platforms
- Identify the function and expectations of people in roles within a professional Game Design and Development team
- Identify game design elements in order to offer constructive critique to existing games
- Present ideas to "potential investors" using clear, concise and persuasive speech and presentation skills

COURSE CONTENT

<table>
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<tr>
<th>Concepts or Topics</th>
<th>Skills or Competencies</th>
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<tr>
<td>2D Image Editing</td>
<td>1. Software: Unity 3D</td>
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<tr>
<td>3D Computer-aided Design</td>
<td>2. Software: Adobe Photoshop</td>
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<tr>
<td>Game Design and Scripting</td>
<td>3. Software: Autodesk Maya</td>
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COURSE TASKS

Classes will be a combination of contextual lectures, sample tasks completed together as a class, and self directed projects adapting the skills learned through previous tasks. Project requirements will be developed from the sample tasks.

ASSESSMENT TASKS AND GRADING

Students will be evaluated on a series of game projects. Project minimum and optional criteria will be outlined before each project. Students are encouraged to add their own features to each project.

Completing minimum requirements gives 2 points per project. Sufficiently completing optional criteria will give a 3 and exceptional effort may be given a 4. Incomplete projects will be given a 0 or 1 depending on the amount of completion.

Final grading will be determined by the average of scores with 2.0 being the passing mark.

LEARNING RESOURCES

Recommended reading:


Online resources:

https://unity3d.com/learn
https://helpx.adobe.com/photoshop.html
https://knowledge.autodesk.com/support/maya

Additional Information

- This is a hands-on class focused on learning practical abilities.
- As an introductory class your primary goal is to start developing a personal toolbox of skills. More tools will equate to more options when expressing your creativity.
- Failure is always an option, they are learning opportunities. If something doesn't work then find out why. Experiment often, but always remember to save your files first.
- The software used in this class are like good games: they are easy to learn but difficult to master. Time and effort spent with them will continually increase your proficiency.

DISABILITIES ACCOMMODATION STATEMENT

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ʻAkoakoa 213 for more information.

Revised May 25, 2011