CSC404: Mobile Game Design

Course topics include: game history & genres, "ludology" (theory of fun, story creation, optimal experience), character & level design, industry tools & processes, graphics & animation, collision detection, visual effects, scripting (passive & active), HCI & interface design, playtesting, business of gaming. Material & projects based on real-world processes.

Instructor Information

Name	Email
Elias Adum	elias.adum@utoronto.ca (put "CSC404" in subject)

Class Information

Lecture: Thursday 10:00 AM - 12:00 PM (LM 123)
 Tutorial: Tuesday 10:00 AM - 11:00 AM (LM 123)
 Office hours: Tuesday 11:00 AM - 12:00 PM or by appointment (BA 3219)

Course Materials

Web Page: http://www.teach.cs.utoronto.ca/~csc404h/fall/

• TA Contact: gibson@dgp.toronto.edu

• **Engine:** Any are allowed; recommended engine is: Unity.

Past engines have included Panda3D, Ogre, Torque, XNA, Irrlicht, Unreal.

Course Schedule

Week of	Topics	Milestone(s)
Sep 12	Course Intro & Game Design Tools	Game Jam Assignment
Sep 19	Ludology	
Sep 26	Pitching Games	Milestone 1: Pitch
Oct 03	Design Docs, Game Mechanics, Character & Level Design	
Oct 10	Prototyping	Milestone 2: Design Doc & Prototype
Oct 17	UI/UX Design, Game Programming Patterns	
Oct 24	Project Management & Scrum Development	Milestone 3: Alpha
Oct 31	Playtesting & Graphics for Games	
Nov 07	AI For Games	
Nov 14	Balancing Game Designs	Milestone 4: Beta
Nov 21	Business of Games	
Nov 28	Publishing and Next Steps	Milestone 5: Final Presentation (Also: Game & peer evaluations)
Dec 05	Wrap-up and Playtesting Results	

Mark Breakdown

- Assignment 5%
- Participation 10%
- Course Project 85%

Assignments

Assignment: Creation of basic game: sprites, items, heads-up display (beyond tutorial level!), splash screen, HUD updates, character behaviours (appearance, standing & movement, interaction with items).

Due: Sep 29th

Due: Oct 27th

Due: Nov 17th

Project Milestones

Note: For each of the following, you are expected to critique other groups when you are not presenting.

Milestone #1: Game Pitch (10%)

• Present two game design ideas that target the theme and the audience.

- Describe gameplay, secret ingredients, max and min completeness levels for final product.
- Must display a thorough understanding of how the game will play.
- **Submit:** Creative brief document

Milestone #2: Design Specifications and Prototype (15%) Due: Oct 13th

- Present all pre-coding design details of the final game.
- Include: mock-ups, storyboards, mood boards, sketches, data models, task breakdown, etc.
- Presentation should include game walkthrough and a technology proof-of-concept.
- <u>Submit:</u> Design document
- **Submit:** Prototype

Milestone #3: Game Alpha (15%)

- In-class demo of prototype (minimum target from Milestone 1).
- Describe goals of final sprints, and target for final product.

Milestone #4: Beta Release (20%)

- In-class demo of completed product, and playtesting results.
- Outline challenges and features of final design, describe finishing touches.
- Produce tutorial, with descriptions of gameplay and controls.

Milestone #5: Playtesting Demo & Final Items (25%) Due: Dec 1st

- Testing & evaluation by industry professionals
- Final reflections on development process and final product.
- **Submit:** Final game
- **Submit:** Peer evaluation