CSC404: Video Game Design

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

Instructor Information

Name	Office	Phone	Email
Steve Engels	BA4266	(416) 946-5454	sengels@cs.toronto.edu (put "404" in subject)
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Course Materials

- Web Page: <u>http://www.cs.utoronto.ca/~csc404h</u>
- TA Contact: <u>404ta@cs.utoronto.ca</u>
- Suggested Text: Rabin, Steve. Introduction to Game Development, Charles River Media.

Course Schedule

Tutorial	Lecture	Deliverables		
Jan 8	Jan 10	Game Jam Assignment 1 – Jan 12		
⇔ Course Intro	⇒ Intro to Unity			
Jan 15	Jan 17	Game Brainstorming – Jan 15		
\Rightarrow Game Mechanics (MDA)	⇒ Ludology I	Game Jam Assignment 2 – Jan 19		
Jan 22	Jan 24	Creative Brief – Jan 25		
⇒ Pitching Games	\Rightarrow Pitch Presentations			
Jan 29	Jan 31	Tech Proof-of-Concept – Jan 29		
⇒ Mini-Demo (Basic Tech)	⇒ Character & Level Design	-		
Feb 5	Feb 7	Design Document – Feb 8		
⇒ Design Documents	⇒ Design Presentations			
Feb 12	Feb 14	Tutorial Level Demo – Feb 12		
⇒ Mini-Demo (Tutorial)	⇔ UI/UX Design			
Reading Week				
Feb 26	Feb 28	Playable Prototype – Feb 28		
\Rightarrow Prototypes & Playtesting	\Rightarrow Alpha Presentations			
Mar 5	Mar 7	Gameplay Playtesting		
➡ Topic TBA	⇔ Ludology II			
Mar 12	Mar 14	Updated Game Demo – Mar 12		
⇒ Mini-Demo (Updates)	\Rightarrow Ubisoft Playtesting	Ubisoft Playtest Session – Mar 14		
Mar 19	Mar 21	Beta Release – Mar 22		
⇒ Beta Overview	⇒ Beta Presentations			
Mar 26	Mar 28			
\Rightarrow Monetization & Metrics	⇒ Game AI			
Apr 2	Apr 4	Zynga/Uken Playtest – Apr 4		
⇒ Level Up Overview	⇒ Final Playtest Demo	Level Up Showcase – Apr 17		

Course Deliverables

Note: For all presentation milestones, groups must provide feedback when not presenting.

Game Jam Assignments	5% each
 One-day hackathon events (one at UofT, one at OCADU). 	570 cach
Game Brainstorming	3%
• Submitting ideas for potential games for the project.	
Milestone #1: Game Pitch & Creative Brief	5% & 2%
 Present main game idea and how it targets the theme and the audie Describe game mechanics, secret ingredients, and what a complete <u>Submit</u>: Creative brief document 	
Milestone #2: Design Presentation & Design Document	10%
 Present all pre-coding design details of the final game. Includes mock-ups, storyboards, mood boards, sketches, data mode Also include technology proof-of-concept (presentation), and task <u>Submit:</u> Design document 	
Milestone #3: Game Alpha	5%
 In-class demo of playable prototype. Describe plans for upcoming sprints and goals for final product. <u>Submit:</u> Link to development repo 	
Milestone #4: Beta Release & Playtesting Report	5% & 5%
 In-class demo of completed product, and playtesting results. <u>Submit:</u> Playtesting report 	
Milestone #5: Playtesting Demo & Final Items	15% & 5%
 Testing & evaluation at Zynga/Uken playtest event Level Up Showcase on April 17th (<u>http://www.levelupsho</u> Final reflections on development process and final product. <u>Submit:</u> Final game, video trailer, peer evaluation 	wcase.com)
Mini-Demos	5% each
• Show progress and demonstrate current state of game (when possil	ble).
Design Blogs	10%
• A development journal, outlining your group's weekly progress, ch	nallenges and setbacks.
Participation	10%

• Participating in class, presentations, etc.