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	Video	Email
Steve Engels	https://utoronto.zoom.us/j/5546086241	sengels@cs.toronto.edu
	Passcode: 112358	(please put "404" in subject heading)
Emma Westecott	https://ocadu.zoom.us/j/89388655668 Passcode: 4?d+CVG0	ewestecott@faculty.ocadu.ca
Mason Victoria	Course Discord channel	mason.victoria@utoronto.ca

Course Schedule

Lecture (Tu 1pm-3pm)	Tutorial (Th 1pm-2pm)	Deliverables
Jan 9 @ 1pm	Jan 11 @ 2pm	Game Jam Assignment 1 – Jan 13
⇒ Course Intro, Ludology	⇒ Idea Creation	
Jan 16 @ 1pm	Jan 18 @ 2pm	Game Idea Submissions – Jan 15
⇒ Ludology, part 2	➡ Game Pitch Prep	Game Jam Assignment 2 – Jan 20
Jan 23 @ 1pm	Jan 25 @ 2pm	Creative Brief – Jan 26
⇒ Game Pitch Presentations	➡ Character Design	
Jan 30 @ 1pm	Feb 1 @ 2pm	Tech Proof-of-Concept – Jan 30
⇒ Level Design	⇒ Design Doc Prep	
Feb 6 @ 1pm	Feb 8 @ 2pm	Design Document – Feb 9
Design Presentation	⇒ Game Design Research 1	0
Feb 13 @ 1pm	Feb 15 @ 2pm	Level Prototype – Feb 13
⇒ UI/UX Design	➡ Project Management	
	Reading Week	
Feb 27 @ 1pm	Feb 29 @ 2pm	Playable Prototype – Mar 1
⇒ Alpha Demo Presentation	Prototyping & Playtesting	
Mar 5 @ 1pm	Mar 7 @ 2pm	
⇒ Ludology, part 3	➡ Playtesting Report	
Mar 12 @ 1pm	Mar 14 @ 2pm	Post-Playtesting Demo
➡ Post-Playtest Demo	\Rightarrow Beta Presentation Prep	Ubisoft Playtest Session – Mar 12
Mar 19 @ 1pm	Mar 21 @ 2pm	Beta Release & – Mar 22
\Rightarrow Beta Presentation	⇒ Game Design Research 2	Playtest Report
Mar 26 @ 1pm	Mar 28 @ 2pm	
⇒ AI for Games	⇒ Monetization & Metrics	
Apr 2 @ 1pm	Apr 4 @ 2pm	Final Build & Deliverables – Apr 5
⇔ TBD	⇒ TBD	Gameloft/Zynga Demo – Apr 5?
		Level Up Showcase – Apr 19

Course Materials

- Web Page: Quercus (itch.io for milestone submissions)
- Discord: <u>https://discord.gg/vHeghQrTaY</u>
- TA Contact: <u>404ta@cs.utoronto.ca</u>
- Suggested Text: Rabin, Steve. Introduction to Game Development, Charles River Media.

Course Deliverables

Note: For milestone presentations, half of the groups present in the OCADU lecture (Tue 8:30-11:30).

Game Jam Assignments	5% each (10% total)
• One-day hackathon events (one at UofT, one at OCADU).	
Game Ideas	3%
• Submitting ideas for potential games for the project.	
Milestone #1: Game Pitch & Creative Brief	5% & 3%
 Present main game idea and how it targets the theme and the audien Describe game mechanics, secret ingredients, and what a completed <u>Submit:</u> Creative brief document 	ce. final product will look like.
Milestone #2: Design Presentation & Design Document	5% & 10%
 Present all pre-coding design details of the final game, including moto boards, sketches, data models, etc. Also includes tech proof-of-conc breakdown (document) <u>Submit:</u> Design document 	ock-ups, storyboards, mood ept (presentation), and task
Milestone #3: Game Alpha	10%
 In-class demo of playable prototype. Describe plans for upcoming sprints and goals for final product. <u>Submit:</u> Game demo on itch page 	
Milestone #4: Beta Release & Playtesting Report	10% & 5%
 In-class demo of completed product, and playtesting results. <u>Submit:</u> Playtesting report 	
Milestone #5: Playtesting Demo & Final Items	10% & 5%
 Testing & evaluation at Uken/Gameloft/Zynga playtest event <u>Submit</u>: Final game, video trailer, peer evaluation 	
Tech Demo, Tutorial Level, Updated Game Demos	3% each (9% total)
• Progress checks to demonstrate current state of game.	
Itch.io page	5%
• A development journal, outlining your group's weekly progress, cha	llenges and setbacks.
Participation	10%
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• Participating in class, presentation feedback, playtesting sessions, Ludology seminar, etc.

Peer Evaluations

This course uses peer evaluations to inform adjustments to your final project mark. As a result, the mark that you receive for your project is contingent on your active and equal contribution to the milestones and your group. The peer evaluations are a measure of the quantity and quality of your contributions, and inform us to potential adjustments that might be necessary.

At the end of the course, we ask everyone in the class to provide peer evaluations of their group members (including themselves). If a group member performs above expectations, a multiplier is applied that can increase their project mark by up to 15%. If a group member's contribution is negative or absent, the multiplier will reduce their project mark (by no more than 15%, except in extreme cases).

Serious negative evaluations will involve a follow-up discussion with the course instructor.

Lecture Recordings Policy

Recorded lectures for this course are hosted on the course YouTube channel: <u>https://www.youtube.com/playlist?list=PLNb2ynmgQVX2FEqdI4i9m3ExC0F4o9bxL</u>

Online lectures & tutorials for this course (including your participation) may be recorded on video and be available to students in the course for viewing remotely and after each session. Course videos and materials from this semester and previous semesters belong to your instructor, the University, and/or other source depending on the specific facts of each situation, and are protected by copyright.

In this course, you are permitted to download session videos and materials for your own academic use, but you should not copy, share, or use them for any other purpose without the explicit permission of the instructor. For questions about recording and use of videos in which you appear please contact your instructor.

Generative AI Policy

This course permits the use of external code, art or sounds in the development of the final project (including generative AI). However, students must indicate which portions of their project were completed with external assets (including generative AI), and must cite their sources in these cases. Representing external work as one's own will be considered as an academic offense.