

Course Syllabus

What you will learn in this course



Game Design 2a: Build a World

Are you ready to enter this multi-billion-dollar industry and start applying your technical skills into a compelling package that will catch the eye of an employer? Beginning with conceptualization and the design process, you'll develop your game's story elements, narrative, plot, characters, and assets. Using game design software, you'll bring your game to life by applying lighting, audio, visual effects, player choice options, AI, and consider the type of controls to use for your game. Build a world players can get immersed in.

Unit 1: Get Paid to Make Games!

Are you one of the roughly two-thirds of Americans who play video games? The video game industry is a multi-billion dollar business with about 2.2 billion gamers world-wide, making it one of the fastest growing markets. In fact, global video-game streaming is predicted to grow by 27 percent a year between 2018 and 2026. This means more jobs in programming, animation, art,

and sound in video game design. Yes, it is more than possible to get paid to design and develop video games! Growth in the video game industry will continue to provide a significant source of employment across not only in the United States but the world. In this unit, you'll explore the skills that lead to jobs in this exciting field, learn about top issues in the industry, and maybe even discover the best place for your talents.

What will you learn in this unit?

1. Recognize the skills necessary for a career in the video game industry
2. Explain organizational structures in game design
3. Apply common legal issues to game design
4. Summarize global game market dynamics and regulations

UNIT 1 Assignments	
Assignment	Type
Unit 1 Critical Thinking Questions	Homework
Unit 1 Activity 1	Homework
Unit 1 Activity 2	Homework
Unit 1 Activity 3	Homework
Unit 1 Discussion 1	Discussion
Unit 1 Discussion 2	Discussion
Unit 1 Quiz	Quiz

Unit 2: Give Yourself Some Wow Factor

By now you are ready to enter the multibillion-dollar game design industry, one of the biggest sectors in the entertainment world. You know the difference between AAA studios, small indie companies, and solo indie developers. You probably have an idea about which game design job best suits you. It's time to translate your technical skills into a compelling package that will catch the eye of an employer—a top-notch presentation including a portfolio that will showcase your skills. We'll also explore the benefits of work-based learning and student organizations and, finally, take a peek at the policies and procedures that protect us and the workplace. What are you waiting for? Let's get a job!

What will you learn in this unit?

1. Identify the components of a professional presentation
2. Explain the advantages of membership in a student organization
3. Discuss the benefits of a work-based learning experience
4. Exhibit and apply positive work behaviors
5. Compare and contrast workplace policies and procedures

UNIT 2 Assignments	
Assignment	Type
Unit 2 Critical Thinking Questions	Homework
Unit 2 Activity 1	Homework
Unit 2 Activity 2	Homework
Unit 2 Activity 3	Homework
Unit 2 Discussion 1	Discussion
Unit 2 Discussion 2	Discussion
Unit 2 Quiz	Quiz

Unit 3: Let's Get to Work

If you've ever talked with game designers or game developers, you've probably heard that nothing ever goes as planned. Between looming deadlines, production snags, long hours, and top management priorities, unforeseen issues can pop up anytime in the development process. Experienced game designers know the industry's character and that it can test even the most seasoned professionals—those who create games that not only look good, they play good too. Fortunately, there are processes and tools in place to streamline game development. These will become second nature to you as you reach for them when you have your next great idea.

What will you learn in this unit?

1. Explain the stages of the design process
2. Describe the steps in game conceptualization
3. Apply tools used in game design
4. Organize the elements of a game design document

UNIT 3 Assignments	
Assignment	Type
Unit 3 Critical Thinking Questions	Homework
Unit 3 Activity 1	Homework
Unit 3 Activity 2	Homework
Unit 3 Activity 3	Homework
Unit 3 Discussion 1	Discussion
Unit 3 Discussion 2	Discussion
Unit 3 Quiz	Quiz

Unit 4: Start Your Narrative Journey!

Since the beginning of the 21st century, technological advances have allowed more complex video games to be developed that attract a very large customer base. It's not unusual for modern games to have as much cinematic content, if not more, than most movies, for example. And there is likely more dialog than you'll find in a book and more original music than in an album—all while giving the player the ultimate choice of how the story turns out. Compared to other entertainment media, video games offer an original way of telling stories since they are based on the interaction of the player with the game. Now that you know the steps needed to physically produce your game, it's time to learn how to create the story for your game. You have seen how important documentation is to game development. In this unit, you'll discover how a game's story can add depth and immersion to your game.

What will you learn in this unit?

1. Describe story elements, plot, game flow, and game function
2. Develop game characters and assets
3. Explain how to develop and present a written storyline or narrative
4. Create a game design document for a runner game
5. Utilize game layout charts to explain game flow

UNIT 4 Assignments

Assignment	Type
Unit 4 Critical Thinking Questions	Homework
Unit 4 Activity 1	Homework
Unit 4 Activity 2	Homework
Unit 4 Discussion 1	Discussion
Unit 4 Discussion 2	Discussion
Unit 4 Quiz	Quiz

Game Design 2a Midterm Exam

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from the **first** half of the course (Note: You will be able to open this exam only one time.)

MIDTERM Assignments

Assignment	Type
Midterm Exam	Exam
Midterm Discussion	Discussion

Unit 5: Consider Your Controls

Imagine trying to play a VR game with a controller or a game like *Brothers* or *Guitar Hero* on a touch screen—a lot of the experience is lost in translation. Your game’s control method is important to consider while developing your story. The earlier into the ideation stage that you choose a control scheme, the better you’ll be able to integrate the story into that scheme. That’s not to say you can’t port a game to multiple systems and controller types and still have it be a success, but more often than not, you lose the original experience and intent. Here we’ll take a look at different types of game controllers and what kinds of game they best suit. We’ll also take a look at which control methods are supported in Unity. (Hint: There are a lot of them!)

What will you learn in this unit?

1. Identify and characterize the types of game controllers currently in use
2. Formulate connections to and between user experience and input methods
3. Distinguish the various levels of VR immersion
4. Explain issues and approaches to accessibility issues in game controllers
5. Predict issues and describe concerns when porting from one platform to another

UNIT 5 Assignments

Assignment	Type
Unit 5 Critical Thinking Questions	Homework
Unit 5 Activity 1	Homework
Unit 5 Activity 2	Homework
Unit 5 Activity 3	Homework
Unit 5 Discussion 1	Discussion
Unit 5 Discussion 2	Discussion
Unit 5 Quiz	Quiz

Unit 6: So Many Games, So Little Time

Many games have been created over the years. What started as clear-cut arcade-style games like platformers and top-down shooters has evolved into genre-busting combinations of game types, modes, and mechanics. These games have had effects on society, popular culture, and the players themselves. Knowing the types of games and genres that have made an impact in the industry helps you make decisions about what type of games you want to create.

What will you learn in this unit?

1. Define the various game genres and subgenres
2. Describe how genre-blending occurs
3. Summarize the effects of games on society and the player, including cognitive behavior
4. Create reactive events and purposeful designs in Unity

UNIT 6 Assignments

Assignment	Type
Unit 6 Critical Thinking Questions	Homework
Unit 6 Activity 1	Homework
Unit 6 Activity 2	Homework
Unit 6 Activity 3	Homework
Unit 6 Discussion 1	Discussion
Unit 6 Discussion 2	Discussion
Unit 6 Quiz	Quiz

Unit 7: Assets and Effects

We've got the basics down now, so let's get into gameplay! Next we will discuss the various ways the objects in our game can help or frustrate our player and why both are important. Many games do a good job throwing a lot of mechanics and obstacles at the player, but the best games do so with intent and structure, rewarding the player for successes and challenging the player when appropriate. We will also discuss visual elements like cameras, lighting, audio, and user interface elements.

What will you learn in this unit?

1. Build in-game objects with proper foresight and intent for gameplay implications
2. Apply visual and audio effects to Unity projects
3. Understand how objects can maintain player interest and balance challenge
4. Describe common design elements used in game design

UNIT 7 Assignments

Assignment	Type
Unit 7 Critical Thinking Questions	Homework
Unit 7 Activity 1	Homework

Unit 7 Activity 2	Homework
Unit 7 Discussion 1	Discussion
Unit 7 Discussion 2	Discussion
Unit 7 Quiz	Quiz

Unit 8: Dig into the Playbook!

You've got some planning and pre-production under your belt. You're storyboarding and the ideas are flying. But before we jump too deep into programming, let's take a look at player-centric design. Similar to purposeful design, it is the concept of designing levels based on how the player is playing the game. This includes navigation aids, artificial intelligence, randomness, and dynamic balancing. You'll also learn about optimal game flow and how to keep players coming back for more—and how to level up!

What will you learn in this unit?

1. Evaluate the impact of randomness in game design
2. Understand the process of creating and designing player choice
3. Describe the use of artificial intelligence challenges in game design
4. Identify techniques used in the industry to help the player to navigate
5. Create a new level in Unity

UNIT 8 Assignments

Assignment	Type
Unit 8 Critical Thinking Questions	Homework
Unit 8 Activity 1	Homework
Unit 8 Activity 2	Homework
Unit 8 Activity 3	Homework
Unit 8 Discussion 1	Discussion
Unit 8 Discussion 2	Discussion
Unit 8 Quiz	Quiz

Game Design 2a Final Exam

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from the **second** half of the course (Note: You will be able to open this exam only one time.)

FINAL Assignments	
Assignment	Type
Final Exam	Exam
Final Exam Discussion	Discussion

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