





**A**s an educator for more than a decade, one of the most challenging and rewarding parts of my tenure has been designing projects that are not only enjoyable to work on, but that also create a dynamic link back to teaching the organic design process. Making games requires the synthesis of a number of skills, from the development of the visual and haptic aesthetics to the storytelling and user experience. Our department of Art+Design at NC State’s College of Design fosters active learning through collaborative effort. The “Introduction to Game Creation” course teaches the creative process by immersing students in game theory and design.

During the first session of this new game design course with the students, I realized that playing board games in class not only motivated creative and logical thinking, but also activated “sacred areas” full of joy, as Johan Huizinga proposed in his theory of play back in 1938. Using this momentum, I assigned copies of games from my own collection to groups of students without telling them what they were or how to play them. These games included the *Royal Game of Ur*, *Senet*, and even *Tablut*. (Fortunately, no one was familiar with any of these centuries-old games.)

I asked the students to “decrypt” the games by defining their own rules and mechanics, as well as to test those. This turned out to be a very challenging task and triggered some very unique and fresh ideas.

## Textbook Definition

At the beginning of the course, students were given “A History of Board-games Other Than Chess” by Harold Murray. This resource dives into the academic research of board games: the etymology and history, design elements, and concepts covering both traditional and abstract games. In his work, Murray classifies board games based on their core objectives: alignment and configuration, race, hunt, war, and mancala. These classifications, paired with a formulated list of possible movements and captures, creates a fascinating look at board game concepts, especially in light of recent studies by scholars such as David Parlett.

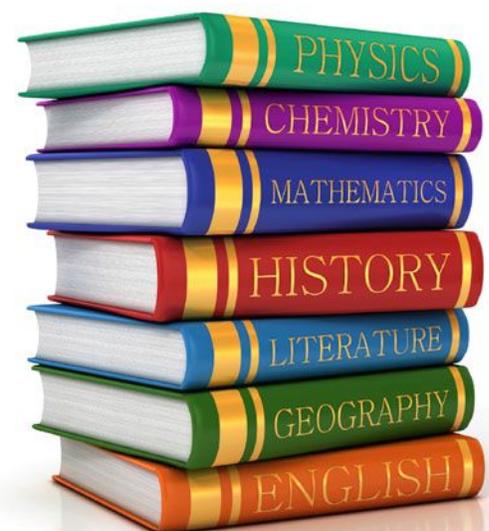
From the art and design students’ perspective, Parlett’s juxtaposition of “themes to mechanics” and “mechanics to themes” opens up new questions. What sort of design process should really be used? What is the most effective way to work as a team while building and envisioning an experience that is very different from storyboarding and filmmaking?

One of the main objectives during this course was to encourage an innovative, game-related design process. Students were taught to use critical thinking, research and analysis, and a collaborative environment to foster originality instead of simply memorizing

Interestingly, what everyone was immediately captivated by was the attention to detail and the feel of natural materials on wooden boards, which clearly showed up later in their own projects.

In another exercise, groups were tasked to create games that could be played practically anywhere without any components. We based this on Roger Caillois’ book “Man, Play and Games” in which he categorizes play to “Ludus and Paidia”—rule-based and spontaneous activities. This concept was broken down further to chance, competition, role play, and vertigo. The exercise used a top-down method, as the students reverse-engineered the activity to isolate individual game elements.

step-by-step blueprints or technical templates. Students then explored storytelling in the context of game design—plot elements such as exposition, climax, and resolution suddenly had the possibility for alternative outcomes. It’s no surprise then that their final project was to design a game.



## The Final Project

The brief of the project included the development, design, and fabrication of a board game as well as the documentation of the design process that the groups decided to follow. Beyond these requirements, complete freedom was given in terms of what type of game is developed or what materials and tools were employed. The students worked in seven groups and approached the task in very different ways.

### Stack

by Lucia Barrett, Troy Calkins, Allison Goodman



One group took the challenge to design an abstract game by focusing on unique physical components carved out of wood. These components include several concave as well as convex pieces, some with holes and tricky curves that make their structural stability difficult to predict. In addition, the designers planted extra weight into some of the pieces that is visually impossible to detect. They called the players “the Architect” and “the Destroyer.” The Architect must build a wall that is not only self-supporting, but can also withstand the impact of a steel ball rolled against the wall by the Destroyer.

### Satellite Nation

by Stephanie Lee Huang, James Park, Anahid Telfeyan



In contrast, this group designed a Cold-War-inspired, futuristic moon colonizing game called *Satellite Nation*. While players must move on a specific orbit on the board, their actions mimic opposing political powers trying to overtake the Moon. The game integrates terms such as embargo, double agent, nebula, and black hole for the game mechanics to capture the theme.



### Firewall

by Austin Caskie, Kirk Denny, Jack Wingo



In *Firewall*, players are rival hackers tasked with breaching the firewall installed between them. They must build “code segments” across their domain in order to traverse up and over the firewall. In addition, “virus tiles” can be used to infect the opponents’ territory, which will temporarily paralyze them.

### Eventide

by Prince Arrington, Faith Furlough, Caswell Turner



Toads and fireflies, day-night transition mechanic, and a re-configurable board are the main elements of the *Eventide* war game. For the fireflies to win, King Ampinga must be found and killed before all of the fireflies are killed. For the toads to win, they must kill all of the fireflies. When they are bathed under the sun, toads are able to use their sticky tongues to slurp up enemy fireflies, and the fireflies are able to revive fallen comrades. The board was made of wood with an elevated feel and a color palette that reflects the story.



## Yokai

by Lucas Gargano, Kierston Morrison



*Yokai* is inspired by the traditional Japanese mythology of demons. The creators paid tribute to the culture by using calligraphy, watercolor, and a bento box packaging with a traditional furoshiki wrapping. The captivating story takes place deep in the heart of Japan in the little village of Kangata, founded upon land once ruled by righteous forces long ago. Kangata has been sought by many, no more so than the benevolent creatures called Yokai. The Great Northern Shrine has been destroyed, and there is no balance or protection against creatures that seek ill harm towards Kangata. The town is besieged by spirits that have long sought the land for themselves. The four lost pieces of the shrine hidden by the Yokai must be found in order to restore balance.

## Something Spooky

by Erin Gebbia, William Underwood



*Something Spooky* is a race game with the objective to escape a haunted house built a long time ago by a mad vampire scientist on an ancient graveyard. A deck of spook cards make the escape difficult and surprise trapdoors complicate the path. The designers have created a fantastic series of comic book style artwork for the cards.

## Mortality

by Sarah Anderson, Trevor Davis, Michael Perlmutter



In *Mortality*, 2-6 players are scientific test subjects tasked with collecting as many diseases as possible before making it back to the lab for study. Each player has a health tracker, and in the case they die, a research team will clone a new version of them to start a new trial. There are numerous cards that can heal players and cure diseases hidden within the game. If the player draws an infection card, they will first take the effects of the disease as usual. They must then place an infection token on their current space, and place the infection card nearby. Any other players that land on that space in the future will suffer the effects of the infection. The game is very intuitive and the dark humor makes it fun to play. Ironically, the game was inspired by *The Game of Life* with a twist of using the most unpleasant aspects of life: sickness, injuries, and death.



In our College of Design, the focus is equally on the design process and physical production, regardless of the course subject or level being taught. The number of groups and variety of projects developed during the Introduction of Game Design course turned the class into a design powerhouse. While one group was working on the visual appeal and a consistent color palette, another group was analyzing their statistical test data to improve gameplay. Collaboration is an extremely common practice in the field of design, and the process of developing a physical game that is playable by others can teach far more than just technical design skills. Overall the course was a great success, and the project enabled us to establish a solid foundation to build off of in the next phase: working together on video games with characters and story development. 🎲



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