

Roblox 2 Course Syllabus

Objectives

This course provides an intermediate overview of Roblox Studio and scripting techniques written in Lua, using various practical application examples to demonstrate what you can achieve on this game engine. By the end of this course, students will have an additional understanding of programming and design principles in Roblox Studio. The objectives of this course include:

1. Intermediate understanding of Roblox Studio
2. Beginner programming and design principles
3. Intermediate understanding of how modern games are architected
4. Build functional and fun maps using scripts and models

Lessons below aim to be read the following way:

Lessons

e.g. L1-1 Basic Controls.md, L2-1 Solid Modeling.md, and L3-1 Constraints.md

These sections are meant for students to read and to understand the concepts of that particular module before jumping into some projects.

Exercises

e.g. L1-1 Exercises.md, L2-1 Exercises.md, and L3-1 Exercises.md

These sections are meant to be completed as the first exercise introduction to the main topic, after students have gone through the prior lesson. Students should do this before they tackle the projects.

Project Lessons

e.g. L1 Project 1 Clock Tower.md, L2 Project 3 Giant Teddy.md, L3 Project 3 Hot Tub.md

Every module has at least 3 projects to choose from. Students are **not** required to do all the projects and we typically suggest doing 1 or 2. However, if they are interested in the material they can do as many as they please.

Topics and Schedule

Module	Topics	Description
1 Variables	Speed-Jump, Traffic, Cloning	An introduction to variables.
2 Loops	Music, Day-Night, Elevator	An introduction to for and while loops.
3 If Statements	Light, Potato, Dice	An introduction to if statements.
4 Touch Events	Puffer, Shroom, Trampoline, Lava-Obby	An introduction to coded events that trigger when a player touches an object.
5 Tool Activation	Bomb, Potion, Floating	Advanced scripting for tools characters hold.
6 Click Detectors	Painter, Gravity, Lava	An introduction to coded events that trigger when a player clicks on an object.
7 Key Binding	Explode, Antman, Air Head	An introduction to key binds.
8 Game Chat	Godly, Apocalypse, Chat Wars	An introduction to chat activated events.