# GAME DEVELOPMENT:
## UNITY & C#

[Duration: 120 Hours/ 6 months]

### Uses unity and c#

- **Can build** your own projects using C# in Unity
- **Adept** at navigating the Unity interface and interpreting basics of the API
- **Confident** iterating with prototypes, debugging, and solving programming challenges
- **Capable** of creating and programming a function state machine
- **Can build** complex games using C# in Unity
- **Build** a game for publication
- **Get** a solid understanding of end-to-end game production

**PRICE: R65 400 / $4560 / €4160/ £4000**
*Full Payment before commencement (no payment plan)*

**Prerequisite: Intro C# course**

+-6 International exams
- additional in price

## ABOUT

**Unity** is a tool that allows you to accomplish different types of tasks related to the game production process. Unity provides game developers with a 2D and 3D platform to create video games. What makes Unity so appealing to developers is that it's simple to use so that you don't need to start from scratch.

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# GAME DEVELOPMENT:
## UNREAL & C++

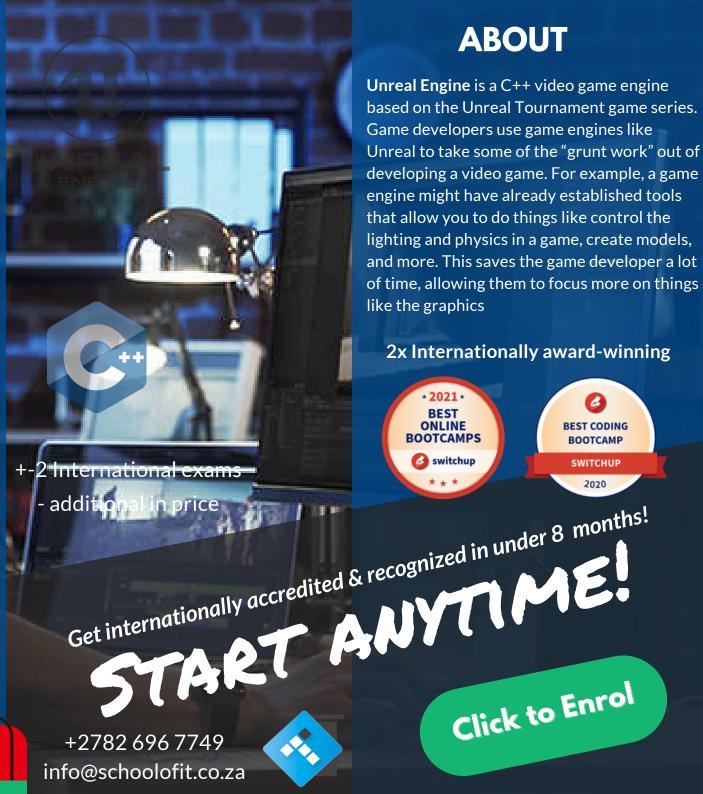[ D u r a t i o n :  1 2 0  H o u r s /
6  m o n t h s ]

### Uses unreal engine and c++

- **R e c r e a t e** the process for blocking out a 3D environment.
- **E d i t** a blocked-out scene based on testing of pacing and flow.
- **U s e** best practices to light a scene to create a believable mood.
- **A p p l**y post-processing volumes to modify the color grading and atmosphere of a scene.
- **I m p o r t** custom assets into Unreal Engine.

**PRICE: R65 400 / $4560 / €4160/ £4000**
*Full Payment before commencement (no payment plan)*

**Prerequisite: Intro C++ course**

+-2 International exams
- additional in price

## ABOUT

**Unreal Engine** is a C++ video game engine based on the Unreal Tournament game series. Game developers use game engines like Unreal to take some of the "grunt work" out of developing a video game. For example, a game engine might have already established tools that allow you to do things like control the lighting and physics in a game, create models, and more. This saves the game developer a lot of time, allowing them to focus more on things like the graphics

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# GAME DEVELOPMENT:
# PYGAME & PYTHON

[ D u r a t i o n :  6 0  H o u r s /
3  m o n t h s ]

## Uses Pygame and python

- Module 1: Introduction to Python
- Python Overview
- Application of Python
- Installation
- Module 2: Basics of Python
- Variables
- Data Types
- Lists and Loops
- Conditional Statements
- Tuples
- Object-Oriented Concepts
- Module 3: Introduction to Pygame
- Overview
- Installing Pygame
- Events in Pygame
- Display
- Font Module
- Module 4: Creating Visuals
- Working with Pixel
- Working with Colour
- Images in Pygame
- Drawing Objects
- Module 5: Moving Objects
- Frame Rate
- Moving in a Straight Line
- Exploring Vectors
- Module 6: User Inputs
- Introduction
- Keyboard Control
- Mouse Control
- Moving in a Straight Line
- Joystick Control
- Module 7: Sound Interaction
- Overview
- Storing Sound
- Creating Sound Effects
- Playing Sounds with Pygame
- Playing Music with Pygame

**PRICE: R47 700 / $3000 / €3000/ £3000**
*Full Payment before commencement (no payment plan)*

+-2 International exams
- additional in price

# ABOUT

**Pygame** is a cross-platform set of Python modules designed for writing video games. It includes computer graphics and sound libraries designed to be used with the Python programming language.

### 2x Internationally award-winning

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