

# Video Game Design and Development

The Video Game Design and Development Online Training Program is the place to start if you're seeking a professional career as a video game designer and developer. This program is also well-suited for enthusiastic amateurs and gamers looking to explore this exciting field as a recreational endeavor.

## Who Should Attend

Individuals looking to acquire the skills needed to design and implement an original video game.

## Skill Sets

- Understand the core programming language skills necessary for game development
- Have a sufficient level of proficiency in the areas of mathematics common to almost all game projects
- Gain a thorough understanding of the main concepts involved in real-time 3D graphics programming

## Requirements

- Microsoft Visual C++ 6.0 or higher (.NET recommended)
- Microsoft DirectX 9.0c Software Development Kit

## Training Time

500 hours, 32 weeks

## Certificate Completion

Using a comprehensive and analytical approach to game engine architectures, this program offers you the opportunity to learn how to effectively implement game ideas. The curriculum is divided into eight modules covering five major areas of study: programming languages, mathematics skills, 3D graphics pipeline programming, real-time game engine architectures, and artificial intelligence algorithms.



## Delivery Format

- The entire program is offered online
- Instructor-facilitated online course
- Start anytime during the quarter
- Learn from the convenience of your home and at your pace

For more information, contact the  
**PACE Program staff at (909) 537-5976,**  
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