DigiPen Video Game Programming

WANIC

DigiPen
INSTITUTE OF TECHNOLOGY

- **Location:** DigiPen Institute of Technology
- **3 High School Credits:** Year 1- CTE (2.0), AP Comp Sci Principles (1.0). Year 2- CTE (2.0), Math Analysis (1.0)
- **2 Year Program Available**
- **Program fees apply** (financial assistance may be available for qualifying students)
- **College Credits:** DigiPen Credits TBD
- **Prerequisite:** Algebra 2 or instructor permission

This is a full year 3-period Skill Center class (3 high school credits).The Pacific Northwest is a true hub of game development, with hundreds of big-name game companies as well as indie game studios contributing to the ongoing growth of the over $80 billion game industry in the U.S. The demand for skilled developers has never been higher. For students who want to pursue a rewarding career as a game developer, this signature program provides the solid foundation that has already launched hundreds of high school students on their journey into this industry and beyond.

- Understand concepts central to programming including Boolean logic, using correct mathematical expressions, abstraction, and choosing how to represent data.
- Write both collaborative and individual programs in C and other programming languages for both problems solving and creative expression.
- Write algorithms to solve problems, read algorithms made by other people, and judge whether certain algorithms are better than others for a specific problem.
- Use programming concepts more specifically related to games such as game loops, component-based engine architecture, and game-play programming.
- Practice the Video Game production process including pitches, design documents, scheduling, milestones, testing, time management, and working on interdisciplinary teams.

wanic.org

WANIC

DigiPen Video Game Programming

DigiPen Video Game Programming Occupations

Sample of reported job titles: Application Developer, Application Integration Engineer, Computer Consultant, Infrastructure Engineer, Network Engineer, Publishing Systems Analyst, Software Architect, Software Developer, Systems Coordinator, Software Engineer, Technical Consultant

Median Yearly Salary Seattle Metro area*

- Software Developers and Software Quality Assurance Analysts and Testers — $141,250
- Computer Systems Analysts — $110,290
- Computer Occupations — $94,980

Source: careeronstop.org, U.S. Department of Labor's Bureau of Labor Statistics 2021

PREPARE FOR COLLEGE AND A CAREER

WANIC (Washington Network for Innovative Careers) is a regional skill center in Northeast King County. WANIC provides advanced level Career and Technical Education (CTE) programs based on rigorous academic and industry standards preparing students for career and college readiness. WANIC Skill Center programs are delivered through a system of branch campuses in seven participating districts. The skill center programs provide dual credit opportunities (both high school and college credit) and/or lead to industry certifications.

Washington Network for Innovative Careers

WANIC Skill Center serves high school students from these School Districts:

Bellevue ◆ Issaquah ◆ Lake Washington
Mercer Island ◆ Northshore ◆ Riverview ◆ Snoqualmie Valley

WANIC Skill Center

11605 132nd Ave. NE, #A108
Kirkland, WA 98034
T: 425-739-8400 / wanic@lwsd.org

wanic.org