

Students completing this pathway will gain an understanding of the fundamental principles used at every stage of the game creation process. After establishing foundational knowledge, game genres and modes of play are explored in terms of the psychology of incentives, motivation to play, and social networking. Virtual characters and non-player characters are reviewed from concept drawing to 2D and 3D art, rigging, and animation. Level design, storytelling, and animation are added to develop a virtual world around the characters Students taking this pathway are strongly encouraged to add an internship to their curriculum which will give them real world experience and an understanding of how the computer game industry works. Employment of game designers is expected to increase 8 percent from 2016 – 2026, about as fast as the average for all occupations, resulting in 6,200 jobs available nationwide.

PATHWAY COURSES

- Introduction to Software Technology
- Computer Science Principles or AP Computer Science Principles
- Game Design: Animation and Simulation

RECOMMENDED COURSES

- Any Art Course
- Any Computer Science Course
- Any Mathematics Course
- Any Physics Course
- Student Internship

POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

TECHNICAL COLLEGES

- Game Development
- Computer Information Systems
- Computer Programming
- Design and Media Production Technology
- COLLEGES/UNIVERSITIES
 - Computer Engineering
 - Computer Science
 - Management Information Systems

CAREER AND TECHNICAL STUDENT ORGANIZATIONS





- Teehnical Instruction
- Alliance Academy for Innovation Denmark High School
- east Forsyth High School
- Forsyth Central High School
 Forsyth Virtual Academy
 Lambert High School
- North Forsyth High School
 South Forsyth High School
- West Forsyth High School

2024-2025 FCS Career and Technical Education

INFORMATION TECHNOLOGY CLUSTER

GAME DESIGN PATHWAY

TOP CAREER CHOICES

- Computer Game Designer Bachelor Degree Required \$63,970 annual salary
- Multimedia Artists and Animators Bachelor Degree needed \$70,530 annual salary

Computer and Information Systems Managers Bachelor Degree Required \$134,679 annual salary 333 annual average openings in Georgia

ADDITIONAL CAREER CHOICES

Audio Engineer

- Computer Programmer
- Software Developer
- Technology Support Specialist
- Video Game Tester

