



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



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|-----------------------------------|-------------------------------|-----------------------------|
| ● Alliance Academy for Innovation | ● Forsyth Central High School | ● North Forsyth High School |
| ● Denmark High School | ● Forsyth Virtual Academy | ● South Forsyth High School |
| ● East Forsyth High School | ● Lambert High School | ● West Forsyth High School |

INFORMATION TECHNOLOGY

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



**CAREER
EXPLORATION
& Pathway Discovery**
CTAE Career Pathways / Fine Arts Pathways



Source: GADOE Plans of Study

<http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/Georgia-Career-Pathways-New-Rule.aspx>