



COMPUTER SCIENCE

PATHWAY



PATHWAY OVERVIEW

The Computer Science pathway helps students build knowledge and hands-on skills in computing, digital systems, problem solving, and technology innovation.

Through Introduction to Software Technology, Computer Science Principles OR AP Computer Science Principles, and AP Computer Science A, students prepare for postsecondary education, industry credentials, and work-based learning experiences connected to the field.



CAREER CLUSTER

Digital Technology

COURSE SEQUENCE + WORK-BASED LEARNING

1

Introduction to Software Technology

Builds computational thinking and programming skills through algorithms, application design, debugging, and collaborative software projects.



2

Computer Science Principles OR AP Computer Science Principles

Explores computing systems, algorithms, data, networks, cybersecurity, programming, and the social impacts of technology.



3

AP Computer Science A

Builds technical knowledge, programming skills, problem solving, and career readiness through applied learning in AP Computer Science A.



Work-Based Learning (Capstone Experience)

Apply technical skills through internships, client projects, coding challenges, and workplace learning with technology partners.

LEADERSHIP + INDUSTRY CONNECTIONS

CAREER & TECHNICAL STUDENT ORGANIZATION



COMPETITION OPPORTUNITIES

- Coding & Programming
- Management Information Systems
- Computer Problem Solving
- Network Design
- Mobile Application Development



CHAPTER ACTIVITIES

- App or website challenge
- Community Service
- Chapter of the Year
- Digital portfolio
- Chapter campaign
- Leadership conferences



CO-CURRICULAR / INDUSTRY EXPERIENCES

- NOCTI Computer Science
- Industry tours
- Industry panel
- Client projects
- Job shadowing
- FCS IT Summer Internship

SCHOOLS OFFERING THIS PATHWAY

Alpharetta | Cambridge | Centennial | Chattahoochee | Global Impact Academy
Hapeville Charter Career Academy | Innovation Academy | Johns Creek
Milton | North Springs | Northview

POSTSECONDARY OPPORTUNITIES



LOCAL / REGIONAL INSTITUTIONS

- Georgia Institute of Technology
- Kennesaw State University
- Gwinnett Technical College



DUAL ENROLLMENT

Metro-area dual enrollment options may include computer science, cybersecurity, programming, cloud computing, networking, web development, game design, artificial intelligence, or related technology coursework; verify through Georgia Futures.

GAfutures
Explore. Plan. Succeed.

CAREER OPPORTUNITIES

CAREERS

Software Developer

Systems Analyst

QA Tester

ATLANTA-AREA EMPLOYERS

Google Microsoft NCR VOYIX intuit