

CYBER SECURITY

PATHWAY



PATHWAY OVERVIEW

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

Through Introduction to Hardware Technology, Introduction to Cybersecurity, and Advanced Cybersecurity, 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 Hardware Technology

Introduces computer hardware, operating systems, troubleshooting, safety, technical support, and career applications.



2

Introduction to Cybersecurity

Introduces cybersecurity fundamentals, online safety, networks, cyber threats, system vulnerabilities, and basic security practices.



3

Advanced Cybersecurity

Applies advanced skills in network defense, threat detection, vulnerability assessment, incident response, and securing systems against cyberattacks.



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
- Computer Problem Solving
- Website Design
- Cyber Security
- Mobile Application Development



CHAPTER ACTIVITIES

- App or website challenge
- Coding sprint
- Chapter of the Year
- Digital portfolio
- Tech support service project
- Leadership conferences



CO-CURRICULAR / INDUSTRY EXPERIENCES

- CompTIA certification
- Industry Tours
- Job shadowing
- Client projects and workplace learning
- Portfolio development

POSTSECONDARY OPPORTUNITIES



LOCAL / REGIONAL INSTITUTIONS

- Georgia State University
- Kennesaw State University
- Atlanta Technical College
- 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.



SCHOOLS OFFERING THIS PATHWAY

Global Impact Academy | Innovation Academy |
Hapeville Charter Career Academy

CAREER OPPORTUNITIES

CAREERS

Cybersecurity Analyst

SOC Analyst

Information Security Specialist

ATLANTA-AREA EMPLOYERS

