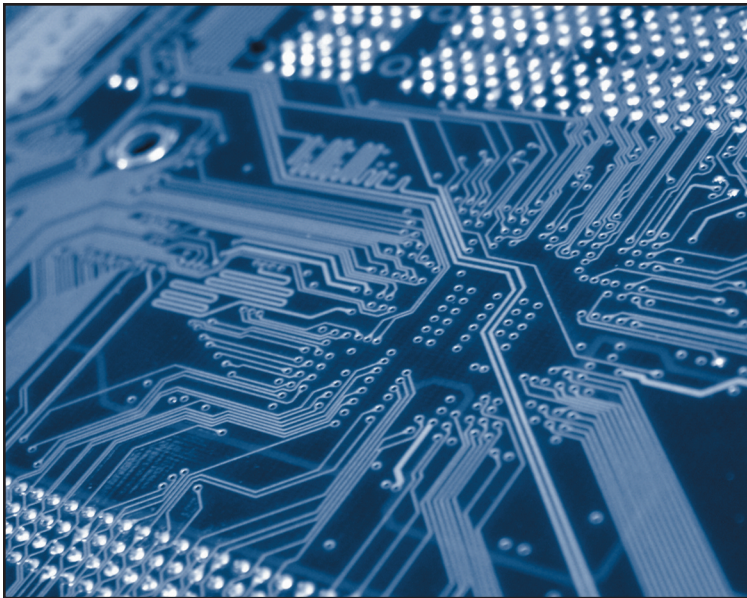


INFORMATION TECHNOLOGY CLUSTER

# PROGRAMMING PATHWAY



*The Programming pathway gives many opportunities to strengthen problem solving skills, and provides needed skills in all disciplines.*

### PATHWAY COURSES

- Introduction to Software Technology
- Computer Science Principles or AP Computer Science Principles
- Programming, Apps, Games and Society

### RECOMMENDED COURSES

- Any Business and Computer Science Course
- Broadcast/Video Production
- Introduction to Engineering Drawing and Design
- Introduction to Graphics and Design
- Work-Based Learning
- World Language

### POST-SECONDARY DEGREES, DIPLOMAS, AND CERTIFICATES

#### TECHNICAL COLLEGES

- Business Information Systems
- CISCO CCNP Specialist and Network Specialist
- Computer Forensics
- Computer Information Systems
- Computer Programming
- Computer Science
- Computer Software Engineering
- Computer Support Specialist
- Drafting Technology
- Information Science
- Information Technology
- Internet Specialist/Website Design
- LINUX/UNIX System Administrator
- Mathematics
- Networking Specialist
- PC Repair & Network Technician
- Wireless Engineering Technology and Networking Technician

#### COLLEGES/UNIVERSITIES

- See [www.GAcollege411.org](http://www.GAcollege411.org) for additional information.

### CAREER AND TECHNICAL STUDENT ORGANIZATIONS



### TOP CAREER CHOICES

#### Computer Programmers

Bachelor Degree needed  
\$73,674 annual salary  
330 annual average openings in Georgia

#### Computer Software Engineers

Bachelor Degree needed  
\$77,022 annual salary  
730 annual average openings in Georgia

#### Computer System Analysts

Bachelor Degree needed  
\$74,443 annual salary  
890 annual average openings in Georgia

#### Computing and Information Systems Managers

Bachelor Degree plus experience needed  
\$101,400 annual salary  
530 annual average openings in Georgia

### ADDITIONAL CAREER CHOICES

- Actuaries
- Computer Scientist
- Computer Software Engineer
- Computer Systems Analyst
- Database Administrator
- Mathematician



Source: GADOE Plans of Study

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



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

- 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