



INFORMATION TECHNOLOGY





6 in 10 Students

plan to pursue a career related

to the CTE area they explored

in high school.³



CTE Graduates with technical or applied science associate's degrees **out-earn** bachelor's degree holders by **\$11,000**.⁴

CTE Graduates

¹ Source: My College Options[®]/ACTE research study (2016). National sample includes 40,192 high school CTE students., ² Jacobson and Mokher, Florida Study of Career and Technical Education, 2014, as cited in the 2014 National Assessment of CTE Final Report, ³ NRCCUA[®] and ACTE 2016, ⁴ Schneider 2013, College Measures

INFORMATION TECHNOLOGY - COMPUTER SCIENCE

(4-year pathway)

The Information Technology (IT) Computer Science Program prepares students to meet the demands of the 21st century with a rigorous academic curriculum, while exposing them to the varied career paths and opportunities available in the Information Technology (IT) Computer Science industry. Students are provided concentrated coursework in JAVA, Python, AP Courses, CyberSecurity, Data Science, Artificial Intelligence (AI), and Software Engineering that will prepare them for post-secondary training and/or a career path in the Information Technology (IT) Computer Science field.

IT Computer Science (Oracle Academy- Java) Specialty Courses:



IT Computer Science Specialty Courses:



IT Computer Science (Oracle Academy -Database) Specialty Courses:



IT CISCO NETWORKING ACADEMY - CYBERSECURITY

(2-year pathway)

The IT CISCO Networking Academy is a nationally recognized program that prepares students for successful careers in information technology fields such as computer network design and administration, hardware, software, and network installation, local and wide-area network (LAN/WAN) management and systems engineering. The IT CISCO Networking Academy) prepares high school students with the professional skills they require to pursue quality academic and professional opportunities. Particular emphasis is given to using decision-making and problem-solving techniques in the application of science, mathematics, communication and social studies concepts to solve networking problems.

Academy courses are designed with the option of an applied approach or a more theoretical approach

to learning IT networking. The course sequence is a hands-on, applied technology approach to Cisco and CompTIA certifications. As a result of participation in this program, students can earn industry certifications that are the first steps toward a Cisco Certified Network Professional (CCNP) certification, or to more advanced certifications in CCNA Voice, Cloud, Wireless, or Security.

IT Networking CISCO Specialty Courses:





Possible Certifications

- Microsoft Technology Associate Software
- **Development Fundamentals** Microsoft Technology Associate Networking
- **Fundamentals** Microsoft Technology
- Associate Security **Fundamentals**
- CompTIA A+

- CompTIA Network+ CompTIA Security+
- CCENT (networking
- technician) CCNA (network)
- administrator) Certified Network
- Professional (CCNP)



Possible College Majors

- Information Technology Software Development and Design
- Computer Science

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www.pgcps.org/cte

Computer System Analysis

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Department of Career and Technical Education

- Networking and Telecommunications
- Computer Information
- Systems
- Computer Graphics

Computer Support Specialist

- Network Technician
- Network Administrator
- Webmaster
- Software Designer
- Apps Designer Network Manager
 - Computer Programmer
 - Database Administrator
 - - The Prince George's Public Schools does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.

For Program Specific Information



