

Information Technology PATHWAYS



Information Technology careers involve the design, development, support and management of hardware, software, multimedia and systems integration services. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. In addition to careers in the IT industry, IT careers are available in every sector of the economy - from Financial Services to Medical Services, Business to Engineering and Environmental Services. Anyone preparing for an IT career should have a solid grounding in math and science.

OPTIONAL RELATED HIGH SCHOOL EXPERIENCES

Career Exploration | Job Shadowing | Work-Based Learning | Career Practicum | IT Practicum



After you complete Information Technology pathway in high school, you will be prepared to continue courses with one of the following post-high school partners.



CERTIFICATE TCAT

\$42,000 - \$56,000 *

- Desktop Technician
- Computer Support Specialist
- Data Cabling Installer
- Cybersecurity



ASSOCIATE COMM. COLLEGE

\$67,000- \$74,000 *

- Information Security Analysts
- Computer Programmer
- Network and Computer Systems Administrator



BACHELOR'S UNIVERSITY

\$73,000 - \$127,000 *

- Computer Programmer
- Software Developer
- Database Administrator
- Computer Network Architect

*Source: Average Annual Salary - TN Department of Labor and TN Department of Education

Coding

Blackman, Central and Riverdale High Schools



Computer programming is either a stand-alone career or it can be used with other computer applications as a major aspect of broader computer science occupations.

Students will develop standard programming techniques and learn the logic tools and methods typically used by programmers to create simple computer applications. Students will be able to solve problems by planning multistep procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

Networking Systems & Cyber Security

Blackman, LaVergne, Siegel and Stewarts Creek High Schools

Designed for students interested in occupations including: computer support specialists, network and computer systems administrators, computer hardware engineers, computer network architects and cyber security specialists.

This program of study provides students in years 1-3 the opportunity to acquire knowledge in both theory and practical applications pertaining to hardware, operating systems, safe mode, command prompt, security, networking, printers, peripheral devices, laptops, mobile devices, troubleshooting, and customer service management. In the 4th year, students will have the opportunity focus on content that includes database security, planning and analysis, software, and web security.

Students in the Networking & Cyber Security Pathway have the opportunity to study for and pass the following industry certifications: Comptia: Networking Foundations, A+, Net+ and

