

Information Technology Careers



About

Career Description

This career involves the design, development, support and management of hardware, software, multimedia and systems integration services.

Industry Description

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 industry - from financial services to medical services, business to engineering and even environmental services.

Skills

Anyone preparing for an IT career should have a solid understanding of math, science and problem solving.



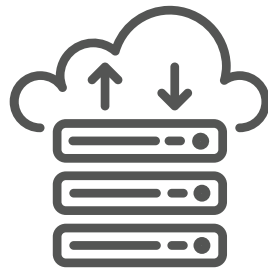
HIGH SCHOOL CAREER & TECHNICAL EDUCATION



CTE Pathway: Coding

Schools: Blackman, Central Magnet, Riverdale, Rockvale, Smyrna High Schools

Description: Coding is designed for students interested in computer programming as either a stand-alone career or as a skill set for other 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.



CTE Pathway: Networking Systems & Cyber Security

Schools: Blackman, LaVergne, Rockvale, Siegel, Stewarts Creek High Schools

Description: This program is designed for students interested in becoming network and computer systems administrators, computer hardware engineers, or computer network architects. Students will learn theory and practical applications for hardware, operating systems, command prompt, security, networking, peripheral devices, laptops, mobile devices, troubleshooting and customer service management.

RELATED HIGH SCHOOL EXPERIENCES



Career Exploration
Work-Based Learning

Job Shadowing
Industry Certification

Higher Education Opportunities

CONTINUING YOUR EDUCATION AFTER HIGH SCHOOL



Training Certifications



Example Institution: TCAT

Estimated Tuition: \$6,000

Jobs: Desktop Technician, Computer Support Specialist, IT and Infrastructure Specialist, Networking and Infrastructure Technician

Estimated Salary Range: \$30,000 - \$56,000



Associate's Degree



Example Institution: Motlow State Community College

Estimated Tuition: \$10,000

Jobs: Database Administrator, Computer & Multimedia Programmer, Information Security Analyst, Network and Systems Administrator

Estimated Salary Range: \$40,000 - \$79,000



Bachelor's Degree



Example Institution: Middle Tennessee State University

Estimated Tuition: \$40,000

Jobs: Computer Network Architect, Computer Programmer, IT Manager, Software Developer, Systems Developer, Web Developer

Estimated Salary Range: \$51,000 - \$121,000

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For more information on CTE pathways, YouScience results and post-secondary options including Tennessee Pathways and Tennessee Promise please contact your school counselor. YouScience results should also be reviewed with a parent or guardian.