INFORMATION TECHNOLOGY PATHWAYS

Information Technology (IT) is the study or use of computer and telecommunications for storing, retrieving, and sending information. The IT pathway will provide you with the skills needed to pursue careers involving the design, development, support and management of hardware, software, multimedia and systems integration services. The Southeast Tennessee region has experienced explosive growth in IT job opportunities within the startup community and established businesses. Skills such as coding, engineering, IT security, and data management are in great demand.

A career in IT requires a solid grounding in math and science.

1. IT PROGRAMMING & SOFTWARE DEVELOPMENT

Programming & Software development focuses on standard programming techniques and logic tools used by programmers to create simple computer applications. Content also concentrates on the development of advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms while working on programming projects of increased difficulty with fellow team members.
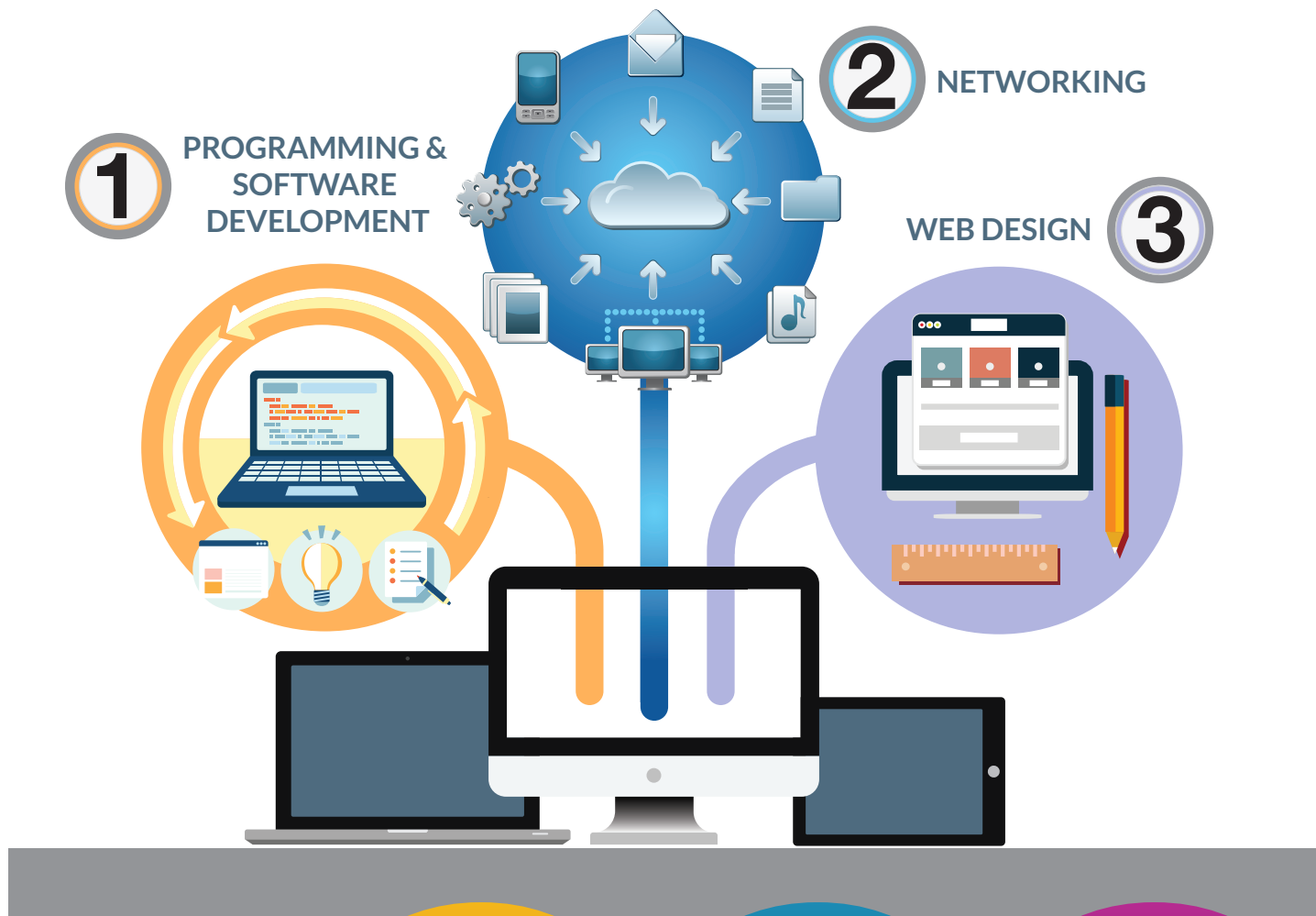
2. IT NETWORKING SYSTEMS

IT Networking Systems content focuses on theory and practical applications related to items such as computer hardware, operating systems, security, networking, printers, mobile devices, troubleshooting, and customer management. Coursework is designed to equip you with the conceptual and practical skills necessary to install voice and data network cabling, read network design documentation, pull and mount cable, set up telecommunication rooms, and troubleshoot.

3. IT WEB DESIGN

IT Web Design content focuses on the attainment of key skills in coding, problem solving, troubleshooting and validation, content development, teamwork, marketing and analytics, and project management. The course is designed to help you understand the professional and ethical issues encountered by web design. Artifacts of the work completed in the courses will be logged in your personal portfolio demonstrating mastery of skills and knowledge.

INFORMATION TECHNOLOGY CAREER OPPORTUNITIES

1 PROGRAMMING & SOFTWARE DEVELOPMENT

2 NETWORKING

3 WEB DESIGN

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

JOB REQUIREMENTS AND WAGES VARY IN THE FIELD OF INFORMATION TECHNOLOGY. A NUMBER OF JOBS REQUEST EXPERIENCE AS THE MAJOR CONTRIBUTOR TO BEING HIRED.

FOR MORE INFORMATION CONTACT YOUR SCHOOL COUNSELOR AND VISIT WWW.SETNPATHWAYS.COM.

CERTIFICATE
TCAT**

$20,000 - 80,000*

- Computer Support Technician

- Implementation Specialist

TCAT Athens
TCAT Chattanooga

ASSOCIATE
COMM. COLLEGE

$20,000 - 55,000*

- Communications Coordinator

- Junior Windows Systems Administrator

- IT Technician

Chattanooga State
Cleveland State

BACHELOR'S
UNIVERSITY

$40,000 - 95,000*

- Software Developer

- Network Manager

- Web Application Developer

UTC - University of Tennessee at Chattanooga

*Median wage ranges based on Tennessee Department of Labor & Workforce Development Labor Market Information- June 2014. Job standards, descriptions, and wages vary by company.
**TCAT - Tennessee College of Applied Technology