Information Technology
Develop your career

The Networking Systems, Web Development, and Programming & Software Development programs of study prepare students for careers in the fast-growing field of information technology. These programs teach skills in building and managing computer networks, designing and developing websites, and creating and testing software applications for a variety of industries, from healthcare to aerospace.

This career path prepares students to design, build, and manage computer networks, develop websites, and create software applications—equipping them for high-demand jobs in the technology and digital innovation industries.

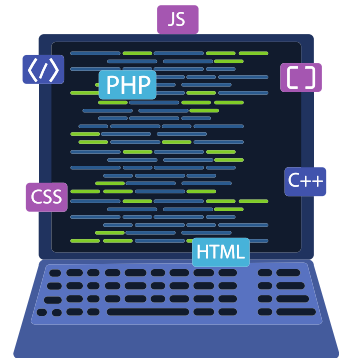| PROGRAMS OF STUDY	INTRODUCTION COURSE	CONCENTRATION COURSE	CONCENTRATION COURSE	ADVANCED COURSE
Networking Systems	Fundamentals of Computer Science	Computer Science I Internetworking Technologies I (CISCO I) Computer Maintenance	Internetworking Technologies II (CISCO II)	Career and Technical Education Project-Based Capstone Independent Study in Technology Applications
Web Development	Principles of Information Technology Fundamentals of Computer Science	Computer Science I	Web Design	Independent Study in Technology Applications
Programming & Software Development	Principles of Information Technology Fundamentals of Computer Science	Computer Science I AP Computer Science Principals	Mobile Application Development AP Computer Science A IB Computer Science Standard Level IB Computer Science Higher Level	Computer Science III Independent Study in Technology Applications

Industry-Based Certifications

- **Information Technology Specialist: Networking**
- **Information Technology Specialist: HTML and CSS**
- **C++ Certified Associate Programmer**
- **Certified Entry-Level Python Programmer (PCEP)**
- **CodeHS Python Level 1 Certification**
- **Information Technology Specialist: Java**

Exploration Activities

- **Join the Technology Student Association (TSA)**
- **Create a website**
- **Participate in SkillsUSA or TSA**
- **Program and create a game**

Work-based Learning

- **Job shadow a computer network architect or support specialist**
- **Intern at a local IT company to develop skills in programming and coding**
- **Shadow a software developer to learn how they create and improve software to support efficient processes at their company**