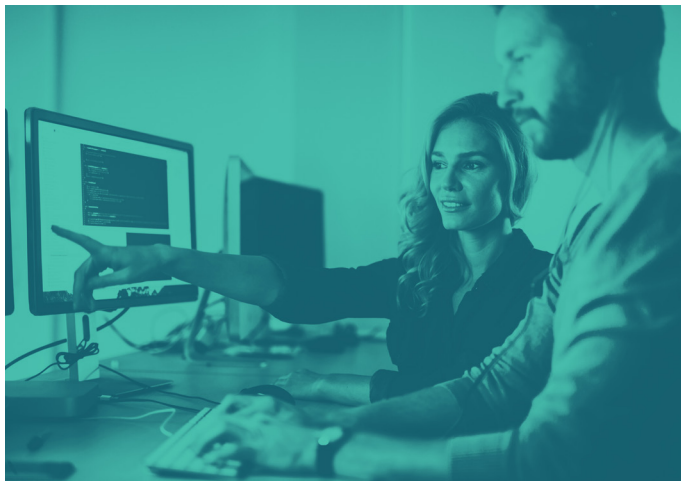# Career and Technical Education (CTE) Pathways: Information Technology

Entry level salary range for careers in information technology: $41,600 - $146,300*

INFORMATION TECHNOLOGY CAREER PATHWAYS TO PREPARE STUDENTS WITH FLEXIBLE CHOICES FOR HIGH DEMAND CAREERS

Information technology (IT) prepares students for the rapidly expanding and evolving world of hardware and software design, development, and management. There are IT career opportunities in virtually every area of the economy, requiring expertise programming and software development, network and system design, web development, data management, and IT support and services. Those in IT careers work in a variety of settings, with a focus on a vast array of priorities such as cyber-attack prevention, network and cloud data management, military security, mobile device app development and management, and IT department support services for companies of all sizes.
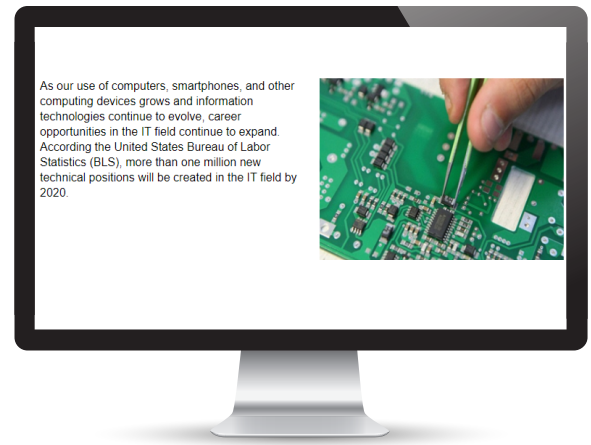
Edgenuity® offers courses designed to prepare students for a variety of career options in information technology. Students have access courses in two high-demand IT career pathways: Network Systems, and Programming and Software Development. The broad set of CTE electives in the IT cluster provides multiple additional opportunities for students as they build the foundational knowledge and skills to prepare them for further study or career entry in IT jobs.

CAREER PATHWAYS	NETWORK SYSTEMS	PROGRAMMING AND SOFTWARE DEVELOPMENT
Introductory Course	❏ Introduction to Information Technology ❏ Fundamentals of Computer Systems**NOV	
Concentrator Courses	❏ Business Computer Information Systems	
	❏ Introduction to Network Systems** ❏ Network Systems Design**	❏ Fundamentals of Programming and Software Development** ❏ Software Development Tools**

RIGOROUS, ENGAGING, CAREER-RELEVANT COURSES DESIGN

Edgenuity CTE courses introduce students to industries and careers focused on information technology roles and responsibilities, as well as providing opportunities for students to deepen their understanding of the course material by applying academic and technical skills to real-world tasks and learning experiences. Course content focuses on objectives directly related to relevant, current technologies, and practices.

The career focus provides students with a sense of direction that motivates students to stay in school and achieve. Edgenuity's CTE courses prepare students for work in information technology industries with learning experiences designed to help students gain critical leadership, communication, teamwork, problem-solving, and interpersonal skills needed to succeed in the world beyond high school. By providing a clear context for learning, Edgenuity ignites student interest and helps students make informed decisions about their future.

As our use of computers, smartphones, and other computing devices grows and information technologies continue to evolve, career opportunities in the IT field continue to expand. According the United States Bureau of Labor Statistics (BLS), more than one million new technical positions will be created in the IT field by 2020.

Edgenuity's information technology course features include:

- Career-relevant hands-on projects
- Engaging direct-instruction videos
- Performance rubrics and exemplars to aid in instructor grading
- Contextual vocabulary support to help students with terms and phrases