



Information Technology Industry Sector

Information Technology (IT) careers involve the design, development, support, and management of hardware, software, multimedia, and systems integration services. The IT industry offers a dynamic and entrepreneurial working environment that has had a revolutionary impact on the economy and on society. IT careers are available not only in the IT industry but also in every other sector of the economy, from Agriculture and Natural Resources to Transportation. Employment for IT support specialists is expected to increase faster than the average for all other occupations (by 18.5 percent by 2012) as organizations continue to adopt and integrate increasingly sophisticated technology. The IT sector contains some of the fastest-growing industries, such as software publishing, Internet publishing, service providers, Web search portals, and data-processing services.

Information Technology careers are divided into four pathways: Information Support and Services, the foundation of all successful business organizations today; Media Support and Services, involving the creation, design, and production of multimedia products and services; Network Communications, involving network analysis, planning, and implementation; and Programming and Systems Development, involving the design, development, and implementation of computer systems and software.

Information Technology Industry Sector Pathways:

- *Information Support and Services*
- *Media Support and Services*
- *Network Communications*
- *Programming and Systems Development*

Entry Level Careers

(with high school diploma)

Help Desk Specialist
Computer Repairer
LAN Maintenance Technician
Production Technician
Web Page Developer
Computer Operator
Word Processing Operator

Technical Level Careers

(with AA or AS degree or certificate)

Computer Support Specialist
LAN Support Technician
Software/Hardware Installer
Telecommunications Specialist
Network Administrator
Data Communications Specialist
Computer Graphic Artist
Desktop Publisher
Multimedia Specialist
Web Designer
Webmaster
Database Administrator
Technical Writer

Professional Level Careers

(with BS or BA degree)

Computer Programmers
Computer Security Specialist
Database Administrators
Software Engineers
Information Systems Architect
Telephony System Administrator
Tower Project Coordinator
Systems Engineer
Network Analyst
Graphic Designer
Multimedia Artist/Animator
Web Architect
Corporate Communications Manager

College: _____
 High School(s): _____

Sector: _____
 Pathway: _____
 Program: _____

	Grade	English	Math	Science	Social Studies	Required Courses			Grade 9-12 Dual Enrollment Options
						Recommended Elective Courses	Other Elective Courses	CTE Courses	
Secondary	9								
	10								
	11								
	12								
Postsecondary	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								
	Year _____ Term _____								

Required Courses:
 Recommended Required Courses:
 Career Education Courses:
 Credit-Based Transition Programs (e.g., Dual Enrollment, Articulated Courses, 2+2+2)
 Assessments, Advising, or Additional Preparation During Summer Breaks