



Level 1	1743- Principles of Information Technology
Level 2	1740- Computer Maintenance/Lab 1916- AP Computer Science Principles
Level 3	1918- Networking
Level 4	1719- Practicum in Information Technology 1726- Project Based Research

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Cisco Certified Entry Networking Technician (CCENT)	AEM 6 Business Practitioner	Computer and Information Sciences, General	Computer and Information Sciences, General	Computer and Information Sciences, General
	Intelligence Planner Certification Program	Computer Systems Networking And Telecommunications	Computer Systems Networking And Telecommunications	Information Technology
	Cisco Certified Entry Networking Technician	Information Technology	Computer and Information Systems Security/ Information Assurance	Computer and Information Systems Security/ Information Assurance
	Microsoft Networking Fundamentals	Network and System Administration/ Administrator	Computer Engineering, General	Computer Engineering, General

Occupations	Median Wage	Annual Openings	% Growth
Computer Network Architects	\$111,633	1,082	23%
Computer Systems Analysts	\$87,568	5,937	29%
Computer Network Support Specialists	\$68,037	1,824	19%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
Join TSA Job shadow a computer network architect or support specialist	Earn an industry-based certification.



The Networking Systems program of study explores the occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study may also include exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.

 The Information Technology (IT) Career Cluster focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Information Technology	13027200 (1 credit)	None	9-10
Computer Maintenance/Lab	13027310 (2 credits)	PREQ: Principles of Information Technology	10-12
AP Computer Science Principles	A3580300 (1 credit)	Algebra I	9-12
Networking/Lab	13027410 (2 credits)	None	10-12
Practicum in Information Technology	13028000 (2 credits)	PREQ: Minimum of two high school information technology (IT) courses	12
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12