



Level 1 Principles of Information Technology *

Level 2 Computer Maintenance with Lab

Level 3 Networking with Lab *

Level 4 Practicum in Information Technology –
Cybersecurity **
Extended Career Preparation I **

Successful completion of a **Program of Study** will fulfill requirements of earning an **Endorsement**.

* District Technology Credit **List Driven Course

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
CompTIA Fundamentals	AEM 6 Business Practitioner	Computer and Information Sciences, General	Computer and Information Sciences, General	Computer and Information Sciences, General
A+	Intelligence Planner Certification Program	Computer Systems Networking & Tele- communications	Computer Systems Networking & Tele- communications	Information Technology
Network+	Cisco Certified Entry Networking Technician	Information Technology	Computer and Information Systems Security/ Information Assurance	Computer and Information Systems Security/ Information Assurance
Security+	Microsoft Networking Fundamentals	Network and System Administration/ Administrator	Computer Engineering, General	Computer Engineering, General

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.

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:	WBL Activities:
Technology Student Association (TSA) SkillsUSA	Earn an industry-based certification. Job shadow a computer network architect or support specialist

COURSE INFORMATION

COURSE NAME	LOCAL COURSE CODE	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Information Technology*	12175 (1 credit)	None	9-10
Computer Maintenance/Lab	12176 (2 credits)	PREQ: Principles of Information Technology	10-12
Networking/Lab*	12178 (2 credits)	PREQ: Principles of Information Technology	10-12
Practicum in Information Technology – Cybersecurity**	12189 (2 credits)	PREQ: Minimum of two high school information technology (IT) courses	12
Extended Career Preparation I **	12255 (3 credits)	PREQ: A sequence of courses from this POS	12

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FOR ADDITIONAL INFORMATION ON THE INFORMATION TECHNOLOGY CAREER CLUSTER,
PLEASE CONTACT:

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Alief ISD does not discriminate on the basis of race, color national origin, handicap or sex. The Alief ISD Career and Technology Education program operates in accordance with the provision in Titles VI, VII and IX and section 504 of the Department of Health, Education and Welfare. Alief ISD program admission procedures, facilities and graduation requirements are designed to eliminate discrimination. Alief ISD will take steps to ensure that lack of English language skills will be not a barrier to admission and participation in all programs, including Career and Technology Education.

Endorsement: Business & Information

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