Program Name: COMPUTER NETWORKING & SECURITY

2024-2025 SCOPE & SEQUENCE

Secondary Scope & Sequence

- ⊙ Technical - Major units and levels with estimated hours
- ⊙ Academic - Recommended

Subject – Hours	Level I	Estimate of Hours	Level II	Estimate of Hours	Level III	Estimate of Hours	Level IV	Estimate of Hours
Technical	PERSONAL AND ENVIRONMENTAL SAFETY	20	KNOWLEDGE OF OPERATING SYSTEMS AND SOFTWARE II	40	NETWORKS AND NETWORK BASICS	120	SCALING NETWORKS	180
	USE PRODUCTIVE SOFTWARE	20	NETWORKING TECHNOLOGIES	60	ROUTING AND SWITCHING ESSENTIALS	120	CONNECTING NETWORKS	180
	KNOWLEDGE OF COMPUTER HARDWARE	180	NETWORK MEDIA AND TOPOLOGIES	55	COMPLIANCE AND OPERATIONAL SECURITY	20		
	TROUBLESHOOTING, REPAIR, AND MAINTENANCE	40	NETWORK DEVICES AND MANAGEMENT	80	THREATS AND VULNERABILITIES	40		
	KNOWLEDGE OF OPERATING SYSTEMS AND SOFTWARE I	40	NETWORK TOOLS AND TROUBLESHOOTING	45	APPLICATION, DATA AND HOST SECURITY	20		
	KNOWLEDGE OF BASIC NETWORKING I	40	NETWORK SECURITY	40	ACCESS CONTROL AND IDENTITY MANAGEMENT	20		
	KNOWLEDGE OF PC SECURITY	20	DATABASE, PROGRAMMIMG, WEB DESIGN	40	CRYPTOGRAPHY	20		
English (4)	College Prep English I		College Prep English II		College Prep English III		College Prep English IV	
Math (3)	Algebra I		Algebra II		Geometry		Higher Level College Prep Math (recommended)	
Science (3)	Biology		Chemistry		Physics			
Humanities (covering these courses in any order) (3)	Civics		U.S. History		World History			
Other	Foreign Language I (recommended)		Foreign Language II (recommended)					

MCTI *2024-2025 School Year*