

Network Technologies

Career Cluster	Information Technology
Course Code	10101
Prerequisite(s)	Introduction To Information Technology Careers (Recommended), Computer Applications
	(Recommended), Computer Hardware & Software (Recommended)
Credit	.5-1
Program of Study and	This course or a dual enrollment equivalent is required for the Networking & Hardware pathway and
Sequence	recommended for the Programming pathway
Student Organization	SkillsUSA
Coordinating Work-Based	Guest Speakers, Tours, Job Shadowing, Personal Portfolio
Learning	
Industry Certifications	None
Dual Credit or Dual	TBD
Enrollment	
Teacher Certification	Information Technology Cluster Endorsement; Networking Systems & Information Support Pathway
	Endorsement; K-12 Educational Technology Endorsement; K-12 Classroom Technology Endorsement
Resources	

Course Description:

Students in the Network Technologies course prepare for careers that involve network analysis, planning, and implementation, including design, installation, maintenance, and management of network systems. The successful establishment and maintenance of networking infrastructure is critical to the success of organizations.

Program of Study Application

Part of the Networking & Hardware pathway. Recommended courses include: Introduction To Information Technology Careers, Computer Applications, and Computer Hardware & Software.

Notes:

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All Networking & Hardware standards integrate aspects of language arts and mathematics.

Course Standards

Level 2: Skill/Concept

Webb Level	Sub-Indicator	Integrated Content
Level 1: Recall	NT 1.1 Demonstrate knowledge of basic network communications.	
Level 1: Recall	NT 1.2 Demonstrate knowledge of basic network classifications and topologies.	
Level 1: Recall	NT 1.3 Demonstrate knowledge of common network hardware.	
Level 4: Extended Thinking	NT 1.4 Apply knowledge of local area network (LAN) physical media.	
Level 1: Recall	NT 1.5 Demonstrate knowledge of communication standards for networks.	
Level 4: Extended Thinking	NT 1.6 Plan, design, and create network architecture.	
Level 2: Skill/Concept	NT 1.7 Demonstrate knowledge of Network Operating Systems (NOS).	
INDICATOR # NT 2. Perfo	rm network operating system installation and configu	ration.
Webb Level	Sub-Indicator	Integrated Content
Level 2: Skill/Concept	NT 2.1 Install a network operating system.	

NT 2.2 Configure a network operating system.

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Level 4: Extended Thinking	NT 2.3 Troubleshoot and resolve network problems.	
INDICATOR # NT 3. Apply	y knowledge of network security systems.	
Webb Level	Sub-Indicator	Integrated Content
Level 3: Strategic Thinking	NT 3.1 Apply proper procedures for securing a network.	
Level 2: Skill/Concept	NT 3.2 Demonstrate penetration testing and ethical hacking.	
INDICATOR # NT 4. Demo	onstrate knowledge of common help desk tools, resour	rces and techniques. Integrated Content
Webb Level Level 2: Skill/Concept	NT 4.1 Use proper documentation and incident	Integrated Content
•	reporting.	
Level 3: Strategic Thinking	NT 4.2 Incorporate customer service skills.	
INDICATOR # NT 5. Explo	ore Careers in Network Technology.	
Webb Level	Sub-Indicator	Integrated Content
Level 1: Recall	NT 5.1 Identify skills, interests, and abilities related to network technology.	

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Level 2: Skill/Concept	NT 5.2 Compare personal interest survey results with network technology occupations.	
Level 3: Strategic Thinking	NT 5.3 Research labor market information for network technology.	
Level 2: Skill/Concept	NT 5.4 Demonstrate necessary job skills needed for information technology industries.	
	tain a safe and environmentally conscious environmen	
INDICATOR # NT 6. Main Webb Level	tain a safe and environmentally conscious environmentally en	nt. Integrated Content
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