

DESE Model Curriculum: Network Administration (CIP Code: 11.0103)

GRADE LEVEL/UNIT TITLE: 11-12/Prepare for Employment

COURSE INTRODUCTION					
<p>A knowledge and understanding of networking concepts prepare students for the career area of network administration. As technology advances, the demand will continue to increase for employees who are able to resolve computer network problems.</p> <p>Students apply problem-solving skills to business situations exploring computer maintenance activities. Students will analyze software problems, install software applications programs and customize defaults, connect components of a local area network, use basic network protocol, and troubleshoot network problems.</p>					
UNIT DESCRIPTION					SUGGESTED UNIT TIMELINE
<p>Students will learn the value of workplace communication and about the typical work environment for Information Technology positions.</p>					2 weeks
					CLASS PERIOD (min.)
					50
ESSENTIAL QUESTIONS					
<p>1. What do you do in a typical day working in Information Technology?</p> <p>2. What is the value of effective communication?</p>					
	NBEA STANDARD				DOK
1. Demonstrate working as a team	MGMT-I-B.1	COMM-I-A.1	COMM-I-D.1	CARDEV-III-C.1	2
	MGMT-I-B.2	COMM-I-A.2	COMM-I-D.2	CARDEV-III-A.1	
	MGMT-IV-D.1	COMM-I-A.3	COMM-I-D.3	CARDEV-III-A.2	
	MGMT-IV-D.2	COMM-I-A.4	COMM-I-D.4	CARDEV-III-B.1	
	MGMT-IV-D.3	COMM-I-B.1	COMM-IV.1	CARDEV-III-D.1	
	MGMT-IV-D.4	COMM-I-B.2	COMM-IV.2	CARDEV-III-D.2	
	MGMT-VIII-A.1	COMM-I-B.3	COMM-II-A.1	CARDEV-III-D.3	
	MGMT-VIII-A.2	COMM-I-C.1	COMM-II-A.2	CARDEV-III-E.1	
	MGMT-VIII-A.3	COMM-I-C.2	COMM-II-A.3	CARDEV-III-E.2	
	MGMT-VIII-A.4	COMM-I-C.3	COMM-II-A.4	CARDEV-III-E.3	
	MGMT-VIII-B.3	COMM-I-C.4	COMM-II-B.1		
2. Search the web and other places to locate career-planning information and job opportunities related to networking	IT-I.1	IT-XVI.3	COMM-I-B.2	CARDEV-III-A.1	1
	IT-I.2	IT-XVIII.1	COMM-I-B.3	CARDEV-III-A.2	
	IT-I.3	IT-XVIII.2	COMM-I-C.1	CARDEV-III-D.1	
	IT-I.4	IT-XVIII.3	COMM-I-C.2	CARDEV-III-D.2	
	IT-III.1	IT-XVIII.4	COMM-I-C.3	CARDEV-III-D.3	
	IT-IV.1	MGMT-I-B.1	COMM-I-C.4	CARDEV-III-E.1	
	IT-V.1	MGMT-I-B.2	COMM-I-D.1	CARDEV-III-E.2	

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	IT-V.2	MGMT-IV-D.1	COMM-I-D.2	CARDEV-III-E.3	
	IT-VI.1	MGMT-IV-D.2	COMM-I-D.3	CARDEV-IV-A.1	
	IT-VI.2	MGMT-IV-D.3	COMM-I-D.4	CARDEV-IV-A.2	
	IT-VII.1	MGMT-IV-D.4	COMM-IV.1	CARDEV-IV-A.3	
	IT-VII.2	MGMT-VIII-A.1	COMM-IV.2	CARDEV-IV-A.4	
	IT-VIII.1	MGMT-VIII-A.2	COMM-II-A.1	CARDEV-IV-B.1	
	IT-VIII.2	MGMT-VIII-A.3	COMM-II-A.2	CARDEV-IV-C.1	
	IT-VIII.3	MGMT-VIII-A.4	COMM-II-A.3	CARDEV-IV-C.2	
	IT-VIII.4	MGMT-VIII-B.3	COMM-II-A.4	CARDEV-IV-C.3	
	IT-XI.1	COMM-I-A.1	COMM-II-B.1	CARDEV-IV-C.4	
	IT-XIV.1	COMM-I-A.2	CARDEV-II-A.1	CARDEV-V-C.1	
	IT-XIV.2	COMM-I-A.3	CARDEV-II-A.2	CARDEV-V-C.2	
	IT-XVI.1	COMM-I-A.4	CARDEV-II-A.3	CARDEV-V-C.3	
	IT-XVI.2	COMM-I-B.1	CARDEV-II-A.4	CARDEV-V-C.4	
3. Identify careers in the information technology field	IT-I.1	IT-XI.1	MGMT-VIII-A.1	CARDEV-III-E.2	1
	IT-I.2	IT-XIV.1	MGMT-VIII-A.2	CARDEV-III-E.3	
	IT-I.3	IT-XIV.2	MGMT-VIII-A.3	CARDEV-IV-A.1	
	IT-I.4	IT-XVI.1	MGMT-VIII-A.4	CARDEV-IV-A.2	
	IT-III.1	IT-XVI.2	MGMT-VIII-B.3	CARDEV-IV-A.3	
	IT-IV.1	IT-XVI.3	CARDEV-II-A.1	CARDEV-IV-A.4	
	IT-V.1	IT-XVIII.1	CARDEV-II-A.2	CARDEV-IV-B.1	
	IT-V.2	IT-XVIII.2	CARDEV-II-A.3	CARDEV-IV-C.1	
	IT-VI.1	IT-XVIII.3	CARDEV-II-A.4	CARDEV-IV-C.2	
	IT-VI.2	IT-XVIII.4	CARDEV-III-A.1	CARDEV-IV-C.3	
	IT-VII.1	MGMT-I-B.1	CARDEV-III-A.2	CARDEV-IV-C.4	
	IT-VII.2	MGMT-I-B.2	CARDEV-III-D.1	CARDEV-V-C.1	
	IT-VIII.1	MGMT-IV-D.1	CARDEV-III-D.2	CARDEV-V-C.2	
	IT-VIII.2	MGMT-IV-D.2	CARDEV-III-D.3	CARDEV-V-C.3	
	IT-VIII.3	MGMT-IV-D.3	CARDEV-III-E.1	CARDEV-V-C.4	
	IT-VIII.4	MGMT-IV-D.4			
4. Create a resume	IT-I.1	IT-XIV.2	COMM-I-C.4	CARDEV-III-D.1	2
	IT-I.2	IT-XVI.1	COMM-I-D.1	CARDEV-III-D.2	
	IT-I.3	IT-XVI.2	COMM-I-D.2	CARDEV-III-D.3	
	IT-I.4	IT-XVI.3	COMM-I-D.3	CARDEV-III-E.1	

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	IT-III.1	IT-XVIII.1	COMM-I-D.4	CARDEV-III-E.2	
	IT-IV.1	IT-XVIII.2	COMM-IV.1	CARDEV-III-E.3	
	IT-V.1	IT-XVIII.3	COMM-IV.2	CARDEV-IV-A.1	
	IT-V.2	IT-XVIII.4	COMM-II-A.1	CARDEV-IV-A.2	
	IT-VI.1	COMM-I-A.1	COMM-II-A.2	CARDEV-IV-A.3	
	IT-VI.2	COMM-I-A.2	COMM-II.A.3	CARDEV-IV-A.4	
	IT-VII.1	COMM-I-A.3	COMM-II-A.4	CARDEV-IV-B.1	
	IT-VII.2	COMM-I-A.4	COMM-II-B.1	CARDEV-IV-C.1	
	IT-VIII.1	COMM-I-B.1	COMM-III-F.1	CARDEV-IV-C.2	
	IT-VIII.2	COMM-I-B.2	COMM-III-F.2	CARDEV-IV-C.3	
	IT-VIII.3	COMM-I-B.3	COMM-III-F.3	CARDEV-IV-C.4	
	IT-VIII.4	COMM-I-C.1	COMM-III-F.4	CARDEV-V-B.1	
	IT-XI.1	COMM-I-C.2	CARDEV-III-A.1	CARDEV-V-B.2	
	IT-XIV.1	COMM-I-C.3	CARDEV-III-A.2	CARDEV-V-B.3	
5. Demonstrate appropriate interviewing skills	MGMT-I-B.1	COMM-I-A.4	COMM-I-D.2	COMM-II-B.1	2
	MGMT-I-B.2	COMM-I-B.1	COMM-I-D.3	CARDEV-III-A.1	
	MGMT-IV-D.1	COMM-I-B.2	COMM-I-D.4	CARDEV-III-A.2	
	MGMT-IV-D.2	COMM-I-B.3	COMM-IV.1	CARDEV-III-D.1	
	MGMT-IV-D.3	COMM-I-C.1	COMM-IV.2	CARDEV-III-D.2	
	MGMT-IV-D.4	COMM-I-C.2	COMM-II-A.1	CARDEV-III-D.3	
	MGMT-VIII-B.3	COMM-I-C.3	COMM-II-A.2	CARDEV-III-E.1	
	COMM-I-A.1	COMM-I-C.4	COMM-II.A.3	CARDEV-III-E.2	
	COMM-I-A.2	COMM-I-D.1	COMM-II-A.4	CARDEV-III-E.3	
	COMM-I-A.3				
6. Demonstrate communication skills	MGMT-I-B.1	COMM-I-A.4	COMM-I-D.2	COMM-II-B.1	2
	MGMT-I-B.2	COMM-I-B.1	COMM-I-D.3	CARDEV-III-A.1	
	MGMT-IV-D.1	COMM-I-B.2	COMM-I-D.4	CARDEV-III-A.2	
	MGMT-IV-D.2	COMM-I-B.3	COMM-IV.1	CARDEV-III-D.1	
	MGMT-IV-D.3	COMM-I-C.1	COMM-IV.2	CARDEV-III-D.2	
	MGMT-IV-D.4	COMM-I-C.2	COMM-II-A.1	CARDEV-III-D.3	
	MGMT-VIII-B.3	COMM-I-C.3	COMM-II-A.2	CARDEV-III-E.1	
	COMM-I-A.1	COMM-I-C.4	COMM-II.A.3	CARDEV-III-E.2	
	COMM-I-A.2	COMM-I-D.1	COMM-II-A.4	CARDEV-III-E.3	
	COMM-I-A.3				

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7. Demonstrate logical thinking	IT-I.1 IT-I.2 IT-I.3 IT-I.4 IT-III.1 IT-IV.1 IT-V.1 IT-V.2 IT-VI.1 IT-VI.2 IT-VII.1 IT-VII.2 IT-VIII.1 IT-VIII.2 IT-VIII.3 IT-VIII.4 IT-XI.1	IT-XIV.1 IT-XIV.2 IT-XVI.1 IT-XVI.2 IT-XVI.3 IT-XVIII.1 IT-XVIII.2 IT-XVIII.3 IT-XVIII.4 MGMT-I-B.1 MGMT-I-B.2 MGMT-IV-D.1 MGMT-IV-D.2 MGMT-IV-D.3 MGMT-IV-D.4 MGMT-VIII-A.1 MGMT-VIII-A.2	MGMT-VIII-A.3 MGMT-VIII-A.4 MGMT-VIII-B.3 COMM-I-A.1 COMM-I-A.2 COMM-I-A.3 COMM-I-A.4 COMM-I-B.1 COMM-I-B.2 COMM-I-B.3 COMM-I-C.1 COMM-I-C.2 COMM-I-C.3 COMM-I-C.4 COMM-I-D.1 COMM-I-D.2 COMM-I-D.3	COMM-I-D.4 COMM-IV.1 COMM-IV.2 COMM-II-A.1 COMM-II-A.2 COMM-II-A.3 COMM-II-A.4 COMM-II-B.1 CARDEV-III-A.1 CARDEV-III-A.2 CARDEV-III-D.1 CARDEV-III-D.2 CARDEV-III-D.3 CARDEV-III-E.1 CARDEV-III-E.2 CARDEV-III-E.3	3
8. Demonstrate interpersonal skills	MGMT-I-B.1 MGMT-I-B.2 MGMT-IV-D.1 MGMT-IV-D.2 MGMT-IV-D.3 MGMT-IV-D.4	MGMT-VIII-A.1 MGMT-VIII-A.2 MGMT-VIII-A.3 MGMT-VIII-A.4 MGMT-VIII-B.3	CARDEV-III-A.1 CARDEV-III-A.2 CARDEV-III-D.1 CARDEV-III-D.2 CARDEV-III-D.3	CARDEV-III-E.1 CARDEV-III-E.2 CARDEV-III-E.3 ENT-V-C.1 ENT-V-C.2	2
9. Exhibit leadership skills through a student organization (e.g. FBLA-PBL, ACM, SkillsUSA)	MGMT-I-B.1 MGMT-I-B.2 MGMT-IV-D.1 MGMT-IV-D.2 MGMT-IV-D.3 MGMT-IV-D.4 MGMT-VIII-A.1 MGMT-VIII-A.2 MGMT-VIII-A.3 MGMT-VIII-A.4 MGMT-VIII-B.3	COMM-I-A.3 COMM-I-A.4 COMM-I-B.1 COMM-I-B.2 COMM-I-B.3 COMM-I-C.1 COMM-I-C.2 COMM-I-C.3 COMM-I-C.4 COMM-I-D.1 COMM-I-D.2	COMM-I-D.4 COMM-IV.1 COMM-IV.2 COMM-II-A.1 COMM-II-A.2 COMM-II-A.3 COMM-II-A.4 COMM-II-B.1 CARDEV-I-A.1 CARDEV-I-A.2 CARDEV-I-A.3	CARDEV-I-B.1 CARDEV-I-B.2 CARDEV-III-A.1 CARDEV-III-A.2 CARDEV-III-D.1 CARDEV-III-D.2 CARDEV-III-D.3 CARDEV-III-E.1 CARDEV-III-E.2 CARDEV-III-E.3 ENT-V-C.1	2

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	COMM-I-A.1 COMM-I-A.2	COMM-I-D.3	CARDEV-I-A.4	ENT-V-C.2	
ASSESSMENT DESCRIPTIONS					
<ol style="list-style-type: none"> 1. Informal assessments may be utilized such as observation with checklist and quizzes embedded in the vendor curriculum. 2. Since most assessment items in network administration curricula are vendor specific and copyrighted, actual examples cannot be provided. Some suggested vendors are Cisco, Microsoft, and Comp-TIA. 3. Rubric for Interview Skills – Formative Assessment 					
OBJ. #	INSTRUCTIONAL STRATEGIES				
1-8	1. Teacher leads discussion on communication, technical, and interviewing skills. Have students practice interview skills.				
1-9	2. Teacher gives students assignments to research network administration jobs and complete the FBLA job application.				
OBJ. #	INSTRUCTIONAL ACTIVITIES				
1-8	1. Students discuss appropriate communication, technical, and interviewing skills for technology jobs. Students practice interviewing with each other.				
1-9	2. Students research network administration jobs and complete the FBLA job application.				
UNIT RESOURCES					
n/a					