

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

COURSE INTRODUCTION:

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.

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.

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UNIT DESCRIPTION: Students learn how to diagram and plan a network, considering wireless and wired options, as well as software use in networking.		SUGGESTED UNIT TIMELINE: 2 WEEKS CLASS PERIOD (min.): 50 MINUTES				
ESSENTIAL QUESTIONS: 1. What are the risks of not planning and diagramming your network? 2. What’s better, wireless or wired? 3. What are the ramifications of using unlicensed or pirated software?						
ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
		GLEs /CLEs	PS	CCSS	National Business Education Standards	DOK
1. Use networking terminology correctly				RI11-12.1	IT-I.1	2
				RI11-12.2	IT-I.2	
				RI11-12.3	IT-I.3	
				RI11-12.4	IT-I.4	
				RI11-12.5	IT-II.1	
				RI11-12.6	IT-II.2	
				RI11-12.7	IT-II.3	
				RI11-12.10	IT-III.1	
				SL11-12.1	IT-IV.1	
				SL11-12.2	IT-IV.2	
				SL11-12.3	IT-IV.3	
				SL11-12.4	IT-IV.4	
				SL11-12.5	IT-V.1	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

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				SL11-12.6	IT-V.2	
				L11-12.1	IT-VI.1	
				L11-12.2	IT-VI.2	
				L11-12.3	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	
				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	
				WHST11-12.2	IT-XVI.3	
				WHST11-12.4	COMM-I-A.1	
				WHST11-12.5	COMM-I-A.2	
				WHST11-12.6	COMM-I-A.3	
				WHST11-12.7	COMM-I-A.4	
				WHST11-12.8	COMM-I-B.1	
				WHST11-12.9	COMM-I-B.2	
				WHST11-12.10	COMM-I-B.3	
					COMM-I-C.1	
					COMM-I-C.2	

DESE Model Curriculum

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					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	
2. Draw, label, and explain functions of networking layers (OSI and TCP/IP)				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4 SL11-12.5 SL11-12.6 L11-12.1 L11-12.2 L11-12.3 L11-12.4 L11-12.4 L11-12.5 L11-12.6	IT-I.1 IT-I.2 IT-I.3 IT-I.4 IT-II.1 IT-II.2 IT-II.3 IT-III.1 IT-IV.1 IT-IV.2 IT-IV.3 IT-IV.4 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	2

DESE Model Curriculum

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				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	
				WHST11-12.2	IT-XVI.3	
				WHST11-12.4	COMM-I-A.1	
				WHST11-12.5	COMM-I-A.2	
				WHST11-12.6	COMM-I-A.3	
				WHST11-12.7	COMM-I-A.4	
				WHST11-12.8	COMM-I-B.1	
				WHST11-12.9	COMM-I-B.2	
				WHST11-12.10	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	

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GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

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3. Identify network devices (routers, switches, access points, etc.)				RI11-12.1	IT-I.1	1
				RI11-12.2	IT-I.2	
				RI11-12.3	IT-I.3	
				RI11-12.4	IT-I.4	
				RI11-12.5	IT-II.1	
				RI11-12.6	IT-II.2	
				RI11-12.7	IT-II.3	
				RI11-12.10	IT-III.1	
				SL11-12.1	IT-IV.1	
				SL11-12.2	IT-IV.2	
				SL11-12.3	IT-IV.3	
				SL11-12.4	IT-IV.4	
				SL11-12.5	IT-V.1	
				SL11-12.6	IT-V.2	
				L11-12.1	IT-VI.1	
				L11-12.2	IT-VI.2	
				L11-12.3	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	
				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

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				RST11-12.9 RST11-12.10 WHST11-12.1 WHST11-12.2 WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10	IT-XIV.2 IT-XVI.1 IT-XVI.2 IT-XVI.3	
4. List the functions of a network operating system (NOS)				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4 SL11-12.5 SL11-12.6 L11-12.1 L11-12.2 L11-12.3 L11-12.4	IT-I.1 IT-I.2 IT-I.3 IT-I.4 IT-II.1 IT-II.2 IT-II.3 IT-III.1 IT-IV.1 IT-IV.2 IT-IV.3 IT-IV.4 IT-V.1 IT-V.2 IT-VI.1 IT-VI.2 IT-VII.1 IT-VII.2	1

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				L11-12.4 L11-12.5 L11-12.6 RST11-12.1 RST11-12.2 RST11-12.3 RST11-12.4 RST11-12.5 RST11-12.6 RST11-12.7 RST11-12.8 RST11-12.9 RST11-12.10 WHST11-12.1 WHST11-12.2 WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10 N-Q.1 N-Q.2 N-Q.3	IT-VIII.1 IT-VIII.2 IT-VIII.3 IT-IX.1 IT-XII.2 IT-XII.3 IT-XII.4 IT-XIII.2 IT-XIII.3 IT-XIII.4 IT-XIV.1 IT-XIV.2 IT-XVI.1 IT-XVI.2 IT-XVI.3	
5. Identify types of networks (e.g., LAN, WAN, WLAN, MAN, and SAN)				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4	IT-I.1 IT-I.2 IT-I.3 IT-I.4	1

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				RI11-12.5	IT-II.1	
				RI11-12.6	IT-II.2	
				RI11-12.7	IT-II.3	
				RI11-12.10	IT-III.1	
				SL11-12.1	IT-IV.1	
				SL11-12.2	IT-IV.2	
				SL11-12.3	IT-IV.3	
				SL11-12.4	IT-IV.4	
				SL11-12.5	IT-V.1	
				SL11-12.6	IT-V.2	
				L11-12.1	IT-VI.1	
				L11-12.2	IT-VI.2	
				L11-12.3	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	
				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	
				WHST11-12.2	IT-XVI.3	

DESE Model Curriculum

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				WHST11-12.4 WHST11-12.5 WHST11-12.6 WHST11-12.7 WHST11-12.8 WHST11-12.9 WHST11-12.10	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	
6. Identify shared network resources (e.g., hardware, software)				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4	IT-I.1 IT-I.2 IT-I.3 IT-I.4 IT-II.1 IT-II.2 IT-II.3 IT-III.1 IT-IV.1 IT-IV.2 IT-IV.3 IT-IV.4	1

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CIP Code: 11.0103

				SL11-12.5	IT-V.1	
				SL11-12.6	IT-V.2	
				L11-12.1	IT-VI.1	
				L11-12.2	IT-VI.2	
				L11-12.3	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	
				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	
				WHST11-12.2	IT-XVI.3	
				WHST11-12.4	MGMT-I-B.1	
				WHST11-12.5	MGMT-I-B.2	
				WHST11-12.6	MGMT-VIII-A.1	
				WHST11-12.7	MGMT-VIII-A.2	
				WHST11-12.8		
				WHST11-12.9		
				WHST11-12.10		

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

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CIP Code: 11.0103

7. Compare and contrast advantages and disadvantages of network vs. standalone computing				RI11-12.1	IT-III.2	2
				RI11-12.2	IT-I.1	
				RI11-12.3	IT-I.2	
				RI11-12.4	IT-I.3	
				RI11-12.5	IT-I.4	
				RI11-12.6	IT-II.1	
				RI11-12.7	IT-II.2	
				RI11-12.10	IT-II.3	
				SL11-12.1	IT-III.1	
				SL11-12.2	IT-IV.1	
				SL11-12.3	IT-IV.2	
				SL11-12.4	IT-IV.3	
				SL11-12.5	IT-IV.4	
				SL11-12.6	IT-V.1	
				L11-12.1	IT-V.2	
				L11-12.2	IT-VI.1	
				L11-12.3	IT-VI.2	
				L11-12.4	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.5	IT-VIII.1	
				L11-12.6	IT-VIII.2	
				RST11-12.1	IT-VIII.3	
				RST11-12.2	IT-IX.1	
				RST11-12.3	IT-XII.2	
				RST11-12.4	IT-XII.3	
				RST11-12.5	IT-XII.4	
				RST11-12.6	IT-XIII.2	
				RST11-12.7	IT-XIII.3	
				RST11-12.8	IT-XIII.4	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				RST11-12.9	IT-XIV.1	
				RST11-12.10	IT-XIV.2	
				WHST11-12.1	IT-XVI.1	
				WHST11-12.2	IT-XVI.2	
				WHST11-12.4	IT-XVI.3	
				WHST11-12.5	MGMT-I-B.1	
				WHST11-12.6	MGMT-I-B.2	
				WHST11-12.7	MGMT-VIII-A.1	
				WHST11-12.8	MGMT-VIII-A.2	
				WHST11-12.9	MGMT-VIII-A.3	
				WHST11-12.10	MGMT-VIII-A.4	
				S-IC.1	MGMT-VIII-B.3	
				S-IC.2	COMM-I-A.1	
				S-IC.3	COMM-I-A.2	
				S-IC.4	COMM-I-A.3	
				S-ID.1	COMM-I-A.4	
				S-ID.2	COMM-I-B.1	
				S-ID.3	COMM-I-B.2	
				S-ID.4	COMM-I-B.3	
				S-ID.5	COMM-I-C.1	
				S-ID.6	COMM-I-C.2	
				S-ID.7	COMM-I-C.3	
				S-MD.5	COMM-I-C.4	
				S-MD.6	COMM-I-D.1	
				S-MD.7	COMM-I-D.2	
				S-CP.1	COMM-I-D.3	
				S-CP.5	COMM-I-D.4	
				N-Q.1	COMM-IV.1	
				N-Q.2	COMM-IV.2	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				N-Q.3	COMP-I.1 COMP-II.1 COMP-II.2 COMP-III.1 COMP-III.2 COMP-IV.1 COMP-IV.2 COMP-V.2 COMP-VI-G.1 COMP-VI-G.2 COMP-VI-G.3 COMP-VI-K.2 COMP-VI-K.3	
8. Access shared network resources (e.g., hardware, software files)					IT-I.1 IT-I.2 IT-I.3 IT-I.4 IT-II.1 IT-II.2 IT-II.3 IT-III.1 IT-IV.1 IT-IV.2 IT-IV.3 IT-IV.4 IT-V.1 IT-V.2 IT-VI.1 IT-VI.2	2

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

					IT-VII.1 IT-VII.2 IT-VIII.1 IT-VIII.2 IT-VIII.3 IT-IX.1 IT-XII.2 IT-XII.3 IT-XII.4 IT-XIII.2 IT-XIII.3 IT-XIII.4 IT-XIV.1 IT-XIV.2 IT-XVI.1 IT-XVI.2 IT-XVI.3	
9. Describe capabilities of networking media (copper, fiber, and wireless)				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4	IT-I.1 IT-I.2 IT-I.3 IT-I.4 IT-II.1 IT-II.2 IT-II.3 IT-III.1 IT-IV.1 IT-IV.2 IT-IV.3 IT-IV.4	3

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

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CIP Code: 11.0103

				SL11-12.5	IT-V.1	
				SL11-12.6	IT-V.2	
				L11-12.1	IT-VI.1	
				L11-12.2	IT-VI.2	
				L11-12.3	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	
				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	
				WHST11-12.2	IT-XVI.3	
				WHST11-12.4	MGMT-I-B.1	
				WHST11-12.5	MGMT-I-B.2	
				WHST11-12.6	MGMT-VIII-A.1	
				WHST11-12.7	MGMT-VIII-A.2	
				WHST11-12.8	MGMT-VIII-A.3	
				WHST11-12.9	COMM-I-A.1	
				WHST11-12.10	COMM-I-A.2	
				A-SSE.1	COMM-I-A.3	

DESE Model Curriculum

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				A-SSE.2 A-APR.1 A-APR.7 A-CED.1 A-CED.3 A-CED.4 S-IC.1 S-IC.2 S-IC.3 S-IC.4 S-ID.1 S-ID.2 S-ID.3 S-ID.4 S-ID.5 S-ID.6 S-ID.7 S-MD.5 S-MD.6 S-MD.7 S-CP.1 S-CP.5 N-Q.1 N-Q.2 N-Q.3 N-VM.6	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 COMP-I.1 COMP-II.1 COMP-II.2 COMP-III.1 COMP-III.2 COMP-IV.1 COMP-IV.2 COMP-V.2	
10. Diagram and explain logical network topologies (e.g., star, bus, ring, broadband, baseband) and their related geometries				RI11-12.1 RI11-12.2 RI11-12.3	IT-I.1 IT-I.2 IT-I.3	3

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

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CIP Code: 11.0103

				RI11-12.4	IT-I.4	
				RI11-12.5	IT-II.1	
				RI11-12.6	IT-II.2	
				RI11-12.7	IT-II.3	
				RI11-12.10	IT-III.1	
				SL11-12.1	IT-IV.1	
				SL11-12.2	IT-IV.2	
				SL11-12.3	IT-IV.3	
				SL11-12.4	IT-IV.4	
				SL11-12.5	IT-V.1	
				SL11-12.6	IT-V.2	
				L11-12.1	IT-VI.1	
				L11-12.2	IT-VI.2	
				L11-12.3	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	
				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	

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Course Code: 034354

CIP Code: 11.0103

				WHST11-12.2	IT-XVI.3	
				WHST11-12.4	MGMT-I-B.1	
				WHST11-12.5	MGMT-I-B.2	
				WHST11-12.6	MGMT-VIII-A.1	
				WHST11-12.7	MGMT-VIII-A.2	
				WHST11-12.8	MGMT-VIII-A.3	
				WHST11-12.9	MGMT-VIII-A.4	
				WHST11-12.10	MGMT-VIII-B.3	
				A-SSE.1	COMM-I-A.1	
				A-SSE.2	COMM-I-A.2	
				A-APR.1	COMM-I-A.3	
				A-APR.7	COMM-I-A.4	
				A-CED.1	COMM-I-B.1	
				A-CED.3	COMM-I-B.2	
				A-CED.4	COMM-I-B.3	
				S-IC.1	COMM-I-C.1	
				S-IC.2	COMM-I-C.2	
				S-IC.3	COMM-I-C.3	
				S-IC.4	COMM-I-C.4	
				S-ID.1	COMM-I-D.1	
				S-ID.2	COMM-I-D.2	
				S-ID.3	COMM-I-D.3	
				S-ID.4	COMM-I-D.4	
				S-ID.5	COMM-IV.1	
				S-ID.6	COMM-IV.2	
				S-ID.7	CARDEV-III-A.1	
				S-MD.5	COMP-I.1	
				S-MD.6	COMP-II.1	
				S-MD.7	COMP-II.2	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				S-CP.1 S-CP.5 N-Q.1 N-Q.2 N-Q.3 G-CO.1 G-CO.2 G-CO.12 G-MG.1 G-MG.2 G-MG.3 N-VM.6	COMP-III.1 COMP-III.2 COMP-IV.1 COMP-IV.2 COMP-V.2 COMP-VI-K.3	
11. Diagram and explain physical network topology (e.g., clients, servers, networking devices, redundancy, ring, star, bus)				RI11-12.1 RI11-12.2 RI11-12.3 RI11-12.4 RI11-12.5 RI11-12.6 RI11-12.7 RI11-12.10 SL11-12.1 SL11-12.2 SL11-12.3 SL11-12.4 SL11-12.5 SL11-12.6 L11-12.1 L11-12.2 L11-12.3	IT-I.1 IT-I.2 IT-I.3 IT-I.4 IT-II.1 IT-II.2 IT-II.3 IT-III.1 IT-IV.1 IT-IV.2 IT-IV.3 IT-IV.4 IT-V.1 IT-V.2 IT-VI.1 IT-VI.2 IT-VII.1	3

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	
				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	
				WHST11-12.2	IT-XVI.3	
				WHST11-12.4	MGMT-I-B.1	
				WHST11-12.5	MGMT-I-B.2	
				WHST11-12.6	MGMT-VIII-A.1	
				WHST11-12.7	MGMT-VIII-A.2	
				WHST11-12.8	MGMT-VIII-A.3	
				WHST11-12.9	MGMT-VIII-A.4	
				WHST11-12.10	MGMT-VIII-B.3	
				A-SSE.1	COMM-I-A.1	
				A-SSE.2	COMM-I-A.2	
				A-APR.1	COMM-I-A.3	
				A-APR.7	COMM-I-A.4	
				A-CED.1	COMM-I-B.1	
				A-CED.3	COMM-I-B.2	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				A-CED.4 S-IC.1 S-IC.2 S-IC.3 S-IC.4 S-ID.1 S-ID.2 S-ID.3 S-ID.4 S-ID.5 S-ID.6 S-ID.7 S-MD.5 S-MD.6 S-MD.7 S-CP.1 S-CP.5 N-Q.1 N-Q.2 N-Q.3 C-GO.1 G-CO.2 G-CO.12 G-MG.1 G-MG.2 G-MG.3 N-VM.6	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 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 COMP-I.1 COMP-II.1 COMP-II.2 COMP-III.1 COMP-III.2 COMP-IV.1 COMP-IV.2 COMP-V.2	
12. Identify types of licensing agreements				RI11-12.1 RI11-12.2	IT-V.3 IT-XV.1	1

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				RI11-12.3	IT-XV.2	
				RI11-12.4	IT-XV.3	
				RI11-12.5	IT-XV.4	
				RI11-12.6	IT-I.1	
				RI11-12.7	IT-I.2	
				RI11-12.10	IT-I.3	
				SL11-12.1	IT-I.4	
				SL11-12.2	IT-II.1	
				SL11-12.3	IT-II.2	
				SL11-12.4	IT-II.3	
				SL11-12.5	IT-III.1	
				SL11-12.6	IT-IV.1	
				L11-12.1	IT-IV.2	
				L11-12.2	IT-IV.3	
				L11-12.3	IT-IV.4	
				L11-12.4	IT-V.1	
				L11-12.4	IT-V.2	
				L11-12.5	IT-VI.1	
				L11-12.6	IT-VI.2	
				RST11-12.1	IT-VII.1	
				RST11-12.2	IT-VII.2	
				RST11-12.3	IT-VIII.1	
				RST11-12.4	IT-VIII.2	
				RST11-12.5	IT-VIII.3	
				RST11-12.6	IT-IX.1	
				RST11-12.7	IT-XII.2	
				RST11-12.8	IT-XII.3	
				RST11-12.9	IT-XII.4	
				RST11-12.10	IT-XIII.2	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				WHST11-12.1	IT-XIII.3	
				WHST11-12.2	IT-XIII.4	
				WHST11-12.4	IT-XIV.1	
				WHST11-12.5	IT-XIV.2	
				WHST11-12.6	IT-XVI.1	
				WHST11-12.7	IT-XVI.2	
				WHST11-12.8	IT-XVI.3	
				WHST11-12.9		
				WHST11-12.10		
13. Explain current network standards (e.g., IEEE, RFCs, ISO)				RI11-12.1	IT-I.1	2
				RI11-12.2	IT-I.2	
				RI11-12.3	IT-I.3	
				RI11-12.4	IT-I.4	
				RI11-12.5	IT-II.1	
				RI11-12.6	IT-II.2	
				RI11-12.7	IT-II.3	
				RI11-12.10	IT-III.1	
				SL11-12.1	IT-IV.1	
				SL11-12.2	IT-IV.2	
				SL11-12.3	IT-IV.3	
				SL11-12.4	IT-IV.4	
				SL11-12.5	IT-V.1	
				SL11-12.6	IT-V.2	
				L11-12.1	IT-VI.1	
				L11-12.2	IT-VI.2	
				L11-12.3	IT-VII.1	
				L11-12.4	IT-VII.2	
				L11-12.4	IT-VIII.1	
				L11-12.5	IT-VIII.2	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

				L11-12.6	IT-VIII.3	
				RST11-12.1	IT-IX.1	
				RST11-12.2	IT-XII.2	
				RST11-12.3	IT-XII.3	
				RST11-12.4	IT-XII.4	
				RST11-12.5	IT-XIII.2	
				RST11-12.6	IT-XIII.3	
				RST11-12.7	IT-XIII.4	
				RST11-12.8	IT-XIV.1	
				RST11-12.9	IT-XIV.2	
				RST11-12.10	IT-XVI.1	
				WHST11-12.1	IT-XVI.2	
				WHST11-12.2	IT-XVI.3	
				WHST11-12.4	COMM-I-A.1	
				WHST11-12.5	COMM-I-A.2	
				WHST11-12.6	COMM-I-A.3	
				WHST11-12.7	COMM-I-A.4	
				WHST11-12.8	COMM-I-B.1	
				WHST11-12.9	COMM-I-B.2	
				WHST11-12.10	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	

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Networking Concepts

Course Code: 034354

CIP Code: 11.0103

					COMM-IV.2	
<p>ASSESSMENT DESCRIPTIONS*: (Write a brief overview here. Identify Formative/Summative. Actual assessments will be accessed by a link to PDF file or Word doc.)</p> <p>Informal assessments may be utilized such as observation with checklist and quizzes embedded in the vendor curriculum.</p> <p>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.</p> <p>OSIQuiz1</p> <p>OSIQuiz2</p> <p>*Attach Unit Summative Assessment, including Scoring Guides/Scoring Keys/Alignment Codes and DOK Levels for all items. Label each assessment according to the unit descriptions above (i.e., Grade Level/Course Title/Course Code, Unit #.)</p>						
Obj. #	INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)					
1-13	1. Teacher lectures and demonstrates networking concepts.					
1-13	2. Teacher facilitates a jeopardy game to review networking concepts.					
1-13	3. Teacher provides study guides for assessments.					
Obj. #	INSTRUCTIONAL ACTIVITIES: (What Students Do)					
1-13	1. Students take notes and practice networking concepts.					
1-13	2. Students participate in a jeopardy game to review networking concepts.					
1-13	3. Students utilize study guides to prepare for networking quizzes.					
<p>UNIT RESOURCES: (include internet addresses for linking)</p>						