School District
Cisco Networking Academy (6 Credits)

HS & Web Address

Minimum HS Graduation Requirements					PROGRAM OF STUDY MATRIX: MIDDLE - HIGH SCHOOL – POSTSECONDARY			CTE Pathway Requirements
	Grade	English	Math	Science	Social Studies	Additional Required Courses	Career & Technical Courses	Other Required or Elective Courses
					Student Success Plans outlining career goals should be utilized through the advisement process.			
Middle School	7	ELA 7	Math 7	Science 7	Social Studies 7			Electives
	8	ELA 8	Math 8	Science 8	Social Studies 8			Electives
Secondary	9	ELA 9	Algebra I	NGSS Aligned Physical/ Integrated Science	Civics/Geography	World Language I	IT Essentials (ITE)	This matrix represents a *sample* program of study. The LEA's program of study <u>must</u> be reflective of <u>local</u>/state high school graduation requirements and college entrance requirements. This matrix should be reflective of the school's <u>course sequence</u> and requirements.
	10	ELA 10	Algebra II	NGSS Aligned Biology	Economics/ Personal Finance	World Language II	***TBD by LEA—Select ONE of the following:*** NDG Linux Essentials (NDG) AP Computer Science Principles (CSP) *OR* AP Computer Science A (CSA)	
	11	ELA 11	Geometry	NGSS Aligned Chemistry	US History	Physical Education (≥1 Credit)	1. CCNA: Introduction to Networks (IN) 2. CCNA: Routing and Switching Essentials (RSE)	
	12	ELA 12	Trigonometry/ Pre-Calculus	NGSS Aligned Physics		Health Education (≥ 0.5 Credit)	1. CCNA: Scaling Networks (SN) 2. CCNA: Connecting Networks (CN)	
Post-Secondary	13	The Department of Education has negotiated articulation agreements with Delaware Technical Community College.						All programs of study should meet the students' career goals with regard to required degrees
	14							
	15	Continue courses in the area of specialization.						

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	16		and/or certifications. Required courses will vary by IHE.

Additional Learning Opportunities

Early Career Opportunities:	Early College Opportunities:	Industry Recognized Certifications/Licenses:	Student Organization:
☒ Cooperative Education ☐ Internship ☐ Other: <u>Other Early Career Opportunities</u>	☐ Dual Enrollment ☒ Advanced Placement AP Computer Science Principles AP Computer Science A ☒ Articulated Credit <u>Delaware Technical and Community College:</u> CIS120 - Introduction to Programming CNE191 – Router Configuration CNE192 – Network Administration ☐ Pre-Apprenticeship ☐ Other:	☒ <u>CompTIA A+</u> ☒ <u>CCENT</u> ☒ <u>CCNA Routing and Switching</u> ☒ <u>Linux Essentials Professional Development</u>	☒ <u>SkillsUSA</u>

Sample Careers By Educational Level

Employment Opportunities (Upon Completion of HS Pathway)	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or Above
Technical Support: Help Desk Operator, Support Technician, Support Engineer, Network Support Technician, Network Support Engineer	*Network Administration:* Network Administrator, Network Designer, Network Engineer, Solution Provider *Security Administration:* Security Administrator (infrastructure, data, and applications), Network Security Architect, Network Security Engineer, Network Security Specialist *Systems Administration:* Systems Engineer, Systems Integrator, Voice Engineer *Software Development:* Application Developer, Software Developer, Software Engineer, Linux Administrator	*Business Analytics:* Data Scientist, Library Scientist, Data Architect, Director of Analytics *Business Architecture:* Digital Business Architect, Enterprise Architect *Systems Operations:* Operations Center Lead, Operations Center Engineer, Director of Systems Operations	

Feeder Middle School(s):

Colleges/Universities and Articulated Credit Agreements:
Articulation agreements/Memorandums of Understanding:

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LEA Additional Graduation Requirements: