



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	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)	<p>This matrix represents a <i>sample</i> program of study. The LEA's program of study <u>must</u> be reflective of <u>local/state</u> high school graduation requirements and college entrance requirements.</p> <p>This matrix should be reflective of the school's <u>course sequence</u> and requirements.</p>	
	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.							
	14								
	15	Continue courses in the area of specialization.							
	16								

August 12, 2016



<input checked="" type="checkbox"/> Cooperative Education <input type="checkbox"/> Internship <input type="checkbox"/> Other: <u>Other Early Career Opportunities</u>	<input type="checkbox"/> Dual Enrollment <input checked="" type="checkbox"/> Advanced Placement AP Computer Science Principles AP Computer Science A <input checked="" type="checkbox"/> Articulated Credit <u>Delaware Technical and Community College:</u> CIS120 - Introduction to Programming CNE191 – Router Configuration CNE192 – Network Administration <input type="checkbox"/> Pre-Apprenticeship <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> <u>CompTIA A+</u> <input checked="" type="checkbox"/> <u>CCENT</u> <input checked="" type="checkbox"/> <u>CCNA Routing and Switching</u> <input checked="" type="checkbox"/> <u>Linux Essentials Professional Development</u>	<input checked="" type="checkbox"/> <u>SkillsUSA</u>
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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
<i>Technical Support:</i> Help Desk Operator, Support Technician, Support Engineer, Network Support Technician, Network Support Engineer	<i>Network Administration:</i> Network Administrator, Network Designer, Network Engineer, Solution Provider <i>Security Administration:</i> Security Administrator (infrastructure, data, and applications), Network Security Architect, Network Security Engineer, Network Security Specialist <i>Systems Administration:</i> Systems Engineer, Systems Integrator, Voice Engineer <i>Software Development:</i> Application Developer, Software Developer, Software Engineer, Linux Administrator	<i>Business Analytics:</i> Data Scientist, Library Scientist, Data Architect, Director of Analytics <i>Business Architecture:</i> Digital Business Architect, Enterprise Architect <i>Systems Operations:</i> 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:
 Delaware Technical Community College: CIS120, CNE191, CNE192

LEA Additional Graduation Requirements: