

School District

Computer Science

HS & Web Address

Minimum HS Graduation Requirements			ts P	PROGRAM OF STUDY MATRIX TEMPLATE: MIDDLE - HIGH SCHOOL – POSTSECONDARY Care						
	Grade	English	Math	Science	Social Studies	Additional Required Courses	Career & Techni Courses	cal	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			This matrix represents a sample program of study. The LEA's program of study must be reflective of local/state high school graduation	
	10	ELA 10	Algebra II	NGSS Aligned Biology	Economics/ Personal Finance	World Language II	Exploring Computer Scie	nce (ECS)		
	11	ELA 11	Geometry	NGSS Aligned Chemistry	US History	Physical Education (≥1 Credit)	AP Computer Science Prin	ciples (CSP)	requirements and college entrance requirements. This matrix should be	
	12	ELA 12	Trigonometry/ Pre-Calculus	NGSS Aligned Physics		Health Education (≥ 0.5 Credit)	AP Computer Science	A (CSA)	reflective of the school's <u>course</u> (CSA) <u>sequence</u> and requirements	
Postsecondar y	13	The Department of Education has negotiated articulation agreements with: Delaware Technical Community College's Computer Information Systems, Computer network Engineering, Information Security, and Web Development programs; Delaware State University's Information Technology and Computer Sciences programs; the University of Delaware, and Wilmington University's Computer and Network Security, Software Design and Development programs, and Digital								
Postse	14 15	Evidence Discovery and Digital Evidence Investigation certificates. Continue courses in the area of specialization.								



Vary by PS institution.



Additional Learning Opportunities								
Early Career Opportunities:	Early College Opportunities:	Industry Recognized Certifications/Licenses:	Student Organization:					
Cooperative Education	☐ Dual Enrollment		TSA – Technology Student					
☐ Internship	☐ Advanced Placement		<u>Association</u>					
Other:	Articulated Credit		OR					
Other Early Career Opportunities	Delaware Technical Community College:		BPA – Business Professionals of					
	CIS120 - Introduction to Programming (4 Credits)		<u>America</u>					
	Delaware State University:							
	CSCI110 - Computational Thinking I (2 Credits)							
	CSCI120 - Elements of Computer Programming I (4 Credits)							
	University of Delaware:							
	CISC101 – Principles of Computing							
	Wilmington University:							
	SEC100 – Intro to Comp Hardware & Operations (3 Credits)							
	SEC290 – Introduction to Programming with Python							
	Computer Science Elective							
	☐ Pre-Apprenticeship							
	☐ Other							

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					
	Desktop Technician Programmer * Programmer/Analyst*	Applications Analyst* Applications Engineer Business Analyst Computer Artist/Graphic Designer Computer Engineer Data Modeler Database Programmer HTML Programmer Software Applications Architect Software Applications Specialist Software Engineer* Systems Administrator* Systems Analyst Technical Analyst	HTML Developer/Web Design Information Technology Manager					

^{*}May require higher education depending on job responsibilities.

Feeder Middle School(s):

Colleges/Universities and Articulated Credit Agreements: Articulation agreements/Memorandums of Understanding: Delaware Technical and Community College – CIS120, Delaware State University – CSCI110 and CSCI120, the University of Delaware – CISC101, and Wilmington University – SEC100 and SEC290

LEA Additional Graduation Requirements:

