

This Career Pathway Plan of Study can serve as a guide. Elective courses listed within this plan are only recommended coursework and should be individualized to meet your educational and career goals.



Milford High School - Programming Career Pathway Plan of Study



Information Technology: Entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.

	Grade	English/ Language Arts	Math	Science	Social Studies	Other Required (R) Courses / Recommended Electives	Career and Technical Education (CTE) Courses	SAMPLE Occupations Relating to This Pathway
S E C O N D A R Y P L A N N I N G	9	English 9	<u>Begin Sequence:</u> Algebra I -or- Geometry (H)	<u>Begin Sequence:</u> Physical Science -or- Biology (H)	American Studies 9	Wellness I (R) Fine Art Requirement (R) World Language	Computer Studies Introduction to Pre-Engineering Adobe Photoshop	<ul style="list-style-type: none"> ▶ Computer and Information Scientists ▶ Computer and Information Systems Managers ▶ Computer Programmers ▶ Computer Security Specialists ▶ Computer Software Engineers
	10	English 10	<u>Select two:</u> Algebra I Geometry Algebra II Trigonometry	Biology -or- Chemistry (H)	American Studies 10	Microbiology: Principles & Practices World Language	Adobe Photoshop -OR- Web Design Computer Studies Programming Fundamentals <u>Java Programming (H)</u>	<ul style="list-style-type: none"> ▶ Computer Support Specialists ▶ Computer Systems Analysts ▶ Database Administrators ▶ Multi-Media Artists and Animators
	11	English 11	Applications of Math Algebra II <u>Probability & Statistics</u> Trigonometry Pre-Calculus	Chemistry -or- AP Chemistry	Modern World Studies	Wellness II (R) Creative Writing SAT Prep Math/Writing Personal Finance & Career Management World Language	<u>Adobe Photoshop</u> -OR- <u>Web Design</u> Computer Science Principles (AP) <u>Engineering Design Programming Fundamentals</u> <u>Java programming(H)</u> <u>Data Structures (AP)</u>	<ul style="list-style-type: none"> ▶ Web Developers
	12	English 12	Practical Trig. <u>Probability & Statistics</u> Trigonometry Pre-Calculus Calculus AP Calculus	Conceptual Physics Physics AP Physics		World Language Modern Literature <u>College Composition</u>	<u>Java programming(H)</u> Data Structures & Algorithms(AP) Computer Science Principles (AP) Career Focus Internship	

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Notes: **Running Start College Credit Available for all courses in Bold, Italics and Underlined**

