



Name: \_\_\_\_\_

Grade: \_\_\_\_\_

Parent Signature: \_\_\_\_\_



## Computer Science and Information Technology Pathway

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Pathway Plan of Study (based on the Engineering and Technology Pathway of the Science, Technology, Engineering and Mathematics Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. \*This Plan of Study, used for learners at Ponaganset High School is customized with course titles and appropriate high school graduation requirements as well as career pathway requirements.

EDUCATION LEVELS	GRADE	English/ Language Arts (4 credits)	Math (4 credits = 3 + 1 math-related)	Science (3 credits; 3 lab sciences for 4 year college)	Social Studies/ Sciences (3 credits)	Physical Education/Health (2 credits = 0.5 x 4 years)	Other	Scheduling Notes	SAMPLE Occupations Relating to This Pathway
<b>Interest Inventory Administered and Plan of Study Initiated for all Learners</b>									
<b>GRADUATION REQUIREMENTS</b>	9	English 9 CP/H OR Humanities English CP/H (1 credit)	Algebra I CP OR Alg II CP/H (1 credit)	Biology CP/H (1 credit)	Topics in Social Studies CP/H or other SS elective (1 credit)	Physical Education/Health 9/10 (0.5 credit)	Spanish I or Chinese I (1 credit) Required for 4 yr. college students		<ul style="list-style-type: none"> <li>► Application Developer</li> <li>► Application Support Analyst</li> <li>► Applications Engineer</li> <li>► Computer Systems Manager</li> <li>► Database Administrator</li> <li>► Desktop Support Specialist</li> <li>► Developer</li> <li>► Help Desk Specialist</li> <li>► Help Desk Technician</li> <li>► Information Technology Director</li> <li>► IT Support Manager</li> <li>► IT Support Specialist</li> <li>► IT Systems Administrator</li> <li>► Java Developer</li> <li>► Junior Software Engineer</li> <li>► .NET Developer</li> <li>► Network Architect</li> <li>► Network Engineer</li> <li>► Network Systems Administrator</li> <li>► It Systems Administrator</li> <li>► Programmer</li> <li>► Programmer Analyst</li> <li>► Security Specialist</li> <li>► Software Engineer</li> <li>► Support Specialist</li> <li>► System Architect</li> <li>► Systems Designer</li> <li>► Technical Support Engineer</li> <li>► Technical Support Specialist</li> <li>► Telecommunications Specialist</li> <li>► Web Administrator</li> <li>► Web Developer</li> </ul>
	10	English 10 CP/H (1 credit)	Geometry CP/H OR Algebra II CP (1 credit)	Physical Science CP/H (1 credit)	U.S. History CP/H/EEP/AP (1 credit)	Physical Education/Health 9/10 (0.5 credit)	Spanish II or Chinese II (1 credit) Required for 4 yr. college students		
	11	English 11 CP/H OR AP Language (1 credit)	Algebra II CP OR PreCalc CP/H OR Stats (1 credit)	Chemistry OR Physics CP/H (1 credit)	Twentieth Century CP/H or other SS elective (1 credit)	Physical Education/Health 11/12 or Strength Training (0.5 credit)	Spanish III or Chinese III (1 credit) Recommended for many 4 yr. college students		
	<b>College Placement Assessments-Academic/Career Advisement Provided</b>								
12	English 12 CP/H OR AP Literature (1 credit)	PreCalculus, Principles of Stats, AP Statistics, Personal Finance, or AP Calculus	AP Biology/AP Chemistry/ AP Physics/AP Environmental (1 credit)	Elective: Economics, US/Global Affairs, Sociology, etc.	Physical Education/Health 11/12 or Strength Training (0.5 credit)	Spanish IV H/EEP or Chinese IV (1 credit) Recommended for some 4 yr. college students			
<b>PLAN OF STUDY: Additional Career Related Course Selections</b>						<b>TOTAL CREDITS</b>	<b>SCHEDULING REMINDERS</b>		
<b>Path A</b>			<b>Path B</b>						
<b>CAREER RELATED ELECTIVES</b>	9	PLTW Computer Science Essentials-Honors (1 credit)	PLTW Computer Science Essentials-Honors (1 credit)	Mandatory for the Pathway			Fine Art elective (0.5 credits)	<p>*All plans of study need to meet learner's career goals and pathway requirements.</p> <p>*All course selections should meet required annual credit maximum.</p> <p>*All course requests are utilized to build the master schedule for the following school year.</p> <p>*Please be sure to select the appropriate courses at the time of registration.</p> <p>*Participation in Skills USA and appropriate work-based learning activities to support and reinforce classroom and laboratory learning is recommended for all students.</p>	
	10	PLTW Cybersecurity-Honors (1 credit)	AP/PLTW Computer Science Principles-Honors (1 credit)	Mandatory for the Pathway					
	11	AP/PLTW Computer Science Principles-Honors (1 credit)	PLTW Digital Electronics-Honors OR PLTW Cybersecurity-Honors OR AP/PLTW Computer Science A-Honors (1 credit each)	Mandatory for the Pathway					
	12	PLTW Engineering Design and Development-Honors (1 credit)	PLTW Engineering Design and Development-Honors (1 credit)	Must take a minimum of 3 years of Computer science courses - 4 is recommended.	<b>RECOMMENDED COURSES:</b> PreCalc; AP Calc; AP Stats; Computer Math; College Writing <u>or</u> AP English Lang & Comp.				