







Engineering, Manufacturing, & Technology

Personalized Academic & Career Ed Roadmap (PACER)

Program:

Pathway(s):

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. **Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.**

	9 th Grade	10 th Grade	11 th Grade	12 th Grade	
High School	English I	English II	American Lit. or AP Eng.	British Lit. or AP/College Comp	
	Algebra I or Geometry	Geometry or Algebra II	Algebra II, Pre-Calculus or Statistics	Statistics, Pre-Calculus, Calculus or College Algebra	
	Physical Science or Biology	Biology I or Chemistry	Chemistry or Physics		
	US History Part II	World History	Economics		
	Wellness/Fitness I (requirement)	Online Driver's Education	Personal Finance (requirement)	Senior Interview/Presentation	
	<p><i>Career Electives: Refer to the website for all available options:</i></p> <p>Graphic Technology Materials Processing Electrical Engineering Transportation DaVinci Program</p> <p>Intro to Drafting Advanced Woodworking Mechanical Engineering</p> <p>Architectural Drafting/CADD Metal Technology Aeronautical Engineering</p> <p>Construction Technology Basic Home Repair & Maintenance Applied Engineering</p>				
Career Enhancement Options	<p>Career Pathway Learning Experiences</p> <p><input type="checkbox"/> Job-Shadowing #1: _____</p> <p><input type="checkbox"/> Job-Shadowing #2: _____</p> <p><input type="checkbox"/> Pathway Internship: _____</p> <p><input type="checkbox"/> On-The-Job Training:</p> <p><input type="checkbox"/> Informational Interviews:</p> <p><input type="checkbox"/> Cooperative Education:</p>		<p>Sample Career Related Learning Opportunities</p> <p> Navarro & Wright Internships</p> <p> Advantage Engineers (possible Internships)</p> <p> Manufacturer's Days (through YCAL & PCD)</p> <p> HACC IT Day</p> <p> Harrisburg University IT Day</p> <p> TE Connectivity Internships</p> <p>Contact the high school career coordinator for additional information.</p>		
Post-Secondary	<p>High School Diploma/On the Job/ Short Term/ Industry Certification (non-college credit)</p> <p><input type="checkbox"/> Engineering Aide</p> <p><input type="checkbox"/> Machine Operator</p> <p><input type="checkbox"/> Installation/Repair Assistant</p> <p><input type="checkbox"/> Assembler/Operator</p> <p><input type="checkbox"/> Electrical Apprentice</p> <p><input type="checkbox"/> Cable Installer</p> <p><input type="checkbox"/> Other _____</p>	<p>2 Year-Community College Associate's Degree</p> <p><input type="checkbox"/> Drafting Technician</p> <p><input type="checkbox"/> Sheet metal Technician</p> <p><input type="checkbox"/> Plumber</p> <p><input type="checkbox"/> Carpenter</p> <p><input type="checkbox"/> Mason</p> <p><input type="checkbox"/> Electrician</p> <p><input type="checkbox"/> Other _____</p> <p><small>Certificates offered or Associate Degree offered Penn College and HACC</small></p>	<p>4 Year-College/University Bachelor's Degree</p> <p><input type="checkbox"/> Architect/Civil Engineer</p> <p><input type="checkbox"/> Production Engineer</p> <p><input type="checkbox"/> Construction/Building Inspector</p> <p><input type="checkbox"/> Electrical Engineer</p> <p><input type="checkbox"/> Software Engineer</p> <p><input type="checkbox"/> Communications Engineer</p> <p><input type="checkbox"/> Other _____</p>		