

## Manufacturing

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses for Production Pathway	SAMPLE Occupations Relating to This Pathway
<i>Interest Inventory Administered and Plan of Study Initiated for all Learners</i>								
<b>SECONDARY</b>	<b>9</b>	English/ Language Arts I	Algebra I	Earth or Life or Physical Science	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences.	Click here to view the course catalog: <a href="https://www.graderesults.com/cte">https://www.graderesults.com/cte</a>  <a href="#">Industry-Based Certification Tests &amp; Preparation Courses</a>	<ul style="list-style-type: none"> <li>▶ Assembler</li> <li>▶ Automated Manufacturing Technician</li> <li>▶ Calibration Technician</li> <li>▶ Electrical Installer and Repairer</li> <li>▶ Electromechanical Equipment Assembler</li> <li>▶ Extruding and Drawing Machine Setter/Set-Up Operator</li> <li>▶ Foundry Worker</li> <li>▶ Grinding, Lapping, and Buffing Machine Operator</li> <li>▶ Hand Packer and Packager</li> <li>▶ Hoist and Winch Operator</li> <li>▶ Instrument Maker</li> <li>▶ Large Printing Press Machine Setter and Set-Up Operator</li> <li>▶ Machine Operator</li> <li>▶ Medical Appliance Maker</li> <li>▶ Micro and Nano Fabrication Technicians</li> <li>▶ Milling Machine Setter and Set-Up Operator</li> <li>▶ Millwright</li> <li>▶ Pattern and Model Maker</li> <li>▶ Precision Layout Worker</li> <li>▶ Sheet Metal Worker</li> <li>▶ Solderer and Brazier</li> <li>▶ Tool and Die Maker</li> <li>▶ Welder</li> </ul>
	<b>10</b>	English/ Language Arts II	Geometry	Biology	U.S. History			
	<b>11</b>	English/ Language Arts III	Algebra II	Chemistry	World History Economics			
	<i>College Placement Assessments-Academic/Career Advisement Provided</i>							
	<b>12</b>	English/ Language Arts IV	Trigonometry or Statistics or other math course	Physics	Psychology			
<i>Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.</i>								
<b>POSTSECONDARY</b>	<b>Year 13</b>	English Composition English Literature	Algebra	Chemistry Physics	American Government Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include.	Click here to view the course catalog: <a href="https://www.graderesults.com/cte">https://www.graderesults.com/cte</a>  <a href="#">Industry-Based Certification Tests &amp; Preparation Courses</a>	
	<b>Year 14</b>	Speech/ Oral Communication	Computer Applications	Biological Science Physical Science	American History Geography			
	<b>Year 15</b>	Continue courses in the area of specialization.						
	<b>Year 16</b>							