## Career Cluster: Manufacturing  
### Career Cluster Pathway: Production  
### CTE Program: Production Technology  
### Eligible Recipient: Pinellas County Schools

<table>
<thead>
<tr>
<th>16 CORE CURRICULUM CREDITS</th>
<th>8 ADDITIONAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGLISH</strong></td>
<td><strong>MATH</strong></td>
</tr>
<tr>
<td>4 credits</td>
<td>4 credits</td>
</tr>
<tr>
<td>H – Honors</td>
<td>AP – Advanced Placement</td>
</tr>
</tbody>
</table>

**Career Cluster of interest identified by students enrolled in required middle school career education course that includes interest assessment and career exploration through CHOICES and ePersonal Education Planner through FACTS.org.**

### HIGH SCHOOL

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course 1</th>
<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
<th>Course 5</th>
<th>Course 6</th>
<th>Elective 1</th>
<th>Elective 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>English 1 or H</td>
<td>Algebra 1 or H, Geometry or H</td>
<td>Earth/Space Science or Biology 1 or H</td>
<td>American Government or H</td>
<td>Fine Arts Elective</td>
<td>Production Technology I</td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>English 2 or H</td>
<td>Geometry or H, Algebra 2 or H</td>
<td>Biology 1 or H; or Chemistry, H or AP</td>
<td>World History, H or AP</td>
<td>H.O.P.E</td>
<td>Production Technology II</td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>English 3 or H</td>
<td>3rd Math Credit</td>
<td>3rd Science Credit</td>
<td>American History, H or AP</td>
<td>Elective</td>
<td>Production Technology III</td>
<td>Elective</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>English 4, H, or AP</td>
<td>4th Math Credit</td>
<td>4th Science Credit</td>
<td>Economics or H</td>
<td>Elective</td>
<td>Advanced Technology Applications</td>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>

**Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements - see the Articulation Coordinating Committee’s Dual Enrollment Equivalency List and the Bright Futures Comprehensive Course Table.**

### POSTSECONDARY

Secondary career and technical education programs may lead to industry recognized certificates, occupational opportunities or postsecondary education options. Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.

**TECHNICAL CENTER PROGRAM(S)**
- Heating, ventilation, Air Conditioning & Refrigeration
- Welding
- Machining

**COMMUNITY COLLEGE PROGRAM(S)**
- Industrial Operations Management

**UNIVERSITY PROGRAM(S)**

**Sample Career Specialties (The Targeted Occupations List may be used to identify appropriate careers.)**

- Foreman
- Material Manager
- Electrical Installer & Repairer
- Purchasing Manager
- Machine Operator
- Supervisor

**Articulation and CTE Dual Enrollment Opportunities**

**Secondary to Technical Center (PSAV)**
(Minimum # of clock hours awarded)

**Secondary to College Credit Certificate or Degree**
(Minimum # of clock or credit hours awarded)

**PSAV/PSV to AAS or AS/BS/BAS**
(Statewide and other local agreements may be included here)

*Possible Industry Certifications (Students):*

**Secondary:** Certified Production Technician

**Postsecondary:** Certified Production Technician