# Manufacturing Program of Study
## Perryville CTC Career Cluster Program of Study

This Program of Study Template can 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.

**Ask your high school counselor to help you fill in the required courses you need to graduate.**

<table>
<thead>
<tr>
<th>Grade</th>
<th>English</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies</th>
<th>Other Required Courses, Recommended Electives</th>
<th>Career &amp; Technical Courses and/or Degree Major Courses</th>
<th>SAMPLE Occupations Relating to this Pathway</th>
</tr>
</thead>
</table>
| 9     | Comm Arts I | High School Math | High School Science Course | High School S.S. Course | Personal Finance Computer Science Physics See your counselor for more high school offerings | See your high school counselor for more course offerings | ► Assembler  
► Boilermaker  
► Design Engineer  
► Environmental Engineer  
► Foundry Worker  
► Freight, Stock and Material Mover  
► Health and Safety Representative  
► Industrial Machinery Mechanic  
► Inspector  
► Labor Relations Manager  
► Logistician  
► Manufacturing Technician  
► Pattern and Model Maker  
► Production Manager  
► Quality Control Technician  
► Safety Engineer  
► SPC Coordinator  
► Tool and Diemaker  
► Traffic Manager  
► Welder |
| 10    | Comm Arts II | High School Math | High School Science Course | High School S.S. Course | Personal Finance Computer Science Physics See your counselor for more high school offerings | See your counselor for more high school offerings |  |
| 11    | Comm Arts III  
*English Comp I  
*Public Speaking  
*College Algebra  
*College Trig  
*Online College Science Course  
*Am. College History I & II  
*Political Systems  
Physics Courses  
*Personal Finance  
*Computer Science  
*See counselor for additional college course offerings  
*Perryville CTC Programs–Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology | High School Math or Pre-Algebra | High School Science Course | High School S.S. Course – Government & History  
*Am. College History I & II  
*Political Systems  
Physics Courses  
*Personal Finance  
*Computer Science  
*See counselor for additional college course offerings  
*Perryville CTC Programs–Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology |  |
| 12    | Senior Comm Arts  
& Comm Arts elective  
*English Comp II  
*Intro to Literature  
*College Algebra  
*College Trig  
*Online College Science Course  
*Am. College History I & II  
*Political Systems  
Physics Courses  
*Personal Finance  
*Computer Science  
*See counselor for additional college course offerings  
*Perryville CTC Programs–Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology | High School Math or Pre-Algebra | High School Science Course | High School S.S. Course – Government & History  
*Am. College History I & II  
*Political Systems  
Physics Courses  
*Personal Finance  
*Computer Science  
*See counselor for additional college course offerings  
*Perryville CTC Programs–Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology | See your high school counselor for more high school offerings |  |

*+Dual Credit or Dual Enrollment College courses can often be substituted for high school credit. Check with your Counselor.*

**Assessments/Certifications:** College Placement Assessments, Compass, ACT, SAT  
**Clubs/Extracurricular Activities:** Ask your counselor what is available at your school.  
**CTSO(s):** □ FBLA □ FFA □ TSA □ Skills USA  
**Work-Based Learning:** □ After School Employment □ Internship/Mentorship □ Job Shadowing □ Service Learning □ Supervised Business Experience
Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

### Sample Career Specialties / Occupations

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<tbody>
<tr>
<td>Production</td>
<td>Manufacturing</td>
<td>Production Process</td>
<td>Development</td>
<td>Quality</td>
<td>Maintenance, Installation &amp; Repair</td>
<td>Maintenance, Production</td>
<td>Process</td>
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<td>Logistics</td>
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#### Cluster Knowledge and Skills

- Academic Foundations
- Communications
- Problem Solving and Critical Thinking
- Information Technology Applications
- Systems
- Safety, Health and Environment
- Leadership and Teamwork
- Ethics and Legal Responsibilities
- Employability and Career Development
- Technical Skills