# MANUFACTURING TECHNOLOGIES
- Program of Study -

**Career Cluster:** Manufacturing  
**Career Pathway:** Manufacturing Production Process Development

This Academic Plan is based upon the state requirements needed for an Advanced Diploma. Academic course names may vary among school districts. 

<table>
<thead>
<tr>
<th>Grade</th>
<th>1st Course</th>
<th>2nd Course</th>
<th>3rd Course</th>
<th>4th Course</th>
<th>5th Course</th>
<th>6th Course (CTE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>English I</td>
<td>Algebra I</td>
<td>Biology</td>
<td>Health / Computer Literacy</td>
<td>Physical Education</td>
<td>Manufacturing Technologies I</td>
</tr>
<tr>
<td>10th</td>
<td>English II</td>
<td>Geometry</td>
<td>Chemistry or Geoscience</td>
<td>World History</td>
<td>Physical Education</td>
<td>Manufacturing Technologies II</td>
</tr>
<tr>
<td>11th</td>
<td>English III</td>
<td>Algebra II</td>
<td>Science Course or Elective¹</td>
<td>US History</td>
<td>Foreign Language² or Elective¹</td>
<td>Manufacturing Technologies III²</td>
</tr>
<tr>
<td>12th</td>
<td>English IV</td>
<td>Senior Level Math Course</td>
<td>Elective¹</td>
<td>US Government</td>
<td>Foreign Language² or Elective¹</td>
<td>Manufacturing Technologies Advanced Studies</td>
</tr>
</tbody>
</table>

¹ Electives may include arts and humanities courses or other career and technical education courses that relate to the program of study.
² Foreign Language courses are recommended if a student is planning on entering a university. (See individual university admission policies)
³ CTE Assessments will be administered during the completion level CTE course.

**Career and Technical Student Organizations**
- SkillsUSA

**Work-Based Learning**
- Job Shadowing / Internship / Work Experience / Career Days / Career Fairs / Field Trips / Guest Speakers

**CTE Assessments**
1) End of Program Technical Assessment for Manufacturing Technologies
2) Workplace Readiness Skills Assessment (for Employability Skills Standards)

**Postsecondary Options**
- **Secondary Program Requirements**
  - Student must earn the state Certificate of Skill Attainment in Manufacturing Technologies.
- **Postsecondary Credit Options**
  - Truckee Meadows Community College 21 Credits

**State Articulation Agreements for CTE College Credit**
- College of Southern Nevada / Great Basin College / Nevada State College / Truckee Meadows Community College / University of Nevada, Las Vegas / University of Nevada, Reno / Western Nevada College

**State Recognized Industry Certifications**
- Machine Operator / Calibration Technician / Millwright / Automated Manufacturing Technician / Instrument Control Technician / Production Associate / Welder / Manager/Supervisor

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For inquiries, contact the Equity Coordinator at (775) 687-9200.