

**Curriculum at a Glance**  
**Advanced Manufacturing Technology**  
**Grade 11-12**

Advanced Manufacturing Technology will continue the student's study of the materials and processes used to manufactured goods.

<b>Unit Description</b>	<b>Content and/or Skills</b>
Project design and planning	<ul style="list-style-type: none"> <li>● Geometric Construction</li> <li>● Precision measuring</li> <li>● Dimensioning and tolerance</li> <li>● Blueprint reading</li> <li>● Layout calculations</li> <li>● Cost estimating</li> </ul>
Computer-aided Manufacturing	<ul style="list-style-type: none"> <li>● Toolpaths</li> <li>● G-code</li> <li>● Coordinate entry</li> <li>● Cutting feeds and speeds</li> <li>● Jigs and fixtures</li> </ul>
Secondary processes	<ul style="list-style-type: none"> <li>● Shaping and forming</li> <li>● Assembly</li> <li>● Soldering</li> <li>● Threads, fasteners and hardware</li> <li>● Material properties</li> <li>● Testing and troubleshooting</li> </ul>
Finishing processes	<ul style="list-style-type: none"> <li>● Paint, stain and clear finish</li> <li>● Spray finishes</li> </ul>