

# Skilled Trades-Tool & Die Maker/Designer, Certificate 24-25

**Description:** This certificate program is designed to provide students with the skills and knowledge necessary to enter the workforce as a tool and die maker/designer. The program includes coursework in mathematics, science, and technical skills. .C .C C,

**Completion Time:** 2<sup>Y</sup>

Part-time course schedule ( <sup>Y</sup> )	
Year 1	Year 2
<p><b>Fall Semester</b></p> <p>q Success Skills for the 21st Century G 100 3 Cr.</p> <p>q Industrial Applied Algebra I D 122 2 Cr.</p> <p>q Industrial Communications D 103 2 Cr.</p> <p>q Industrial Documentation &amp; Management D 107 4 Cr.</p> <p>q Introduction to CAD D 115 4 Cr.</p>	<p><b>Fall Semester</b></p> <p>q Introduction to Windows C I 102 1 Cr.</p> <p>q Basic Machine Operation I D 129 4 Cr.</p> <p>q Tool &amp; Die Design Forming D 136 2 Cr.</p> <p>q Fundamentals of Welding ELD 101 3 Cr.</p> <p>q Choose 1</p> <p style="padding-left: 20px;">IG ELD 105 3 Cr.</p> <p style="padding-left: 20px;">IG ELD 106 3 Cr.</p>
<p><b>Spring Semester</b></p> <p>q Industrial Applied Geometry I D 124 2 Cr.</p> <p>q Geometric Dimensioning &amp; Tolerancing D 125 2 Cr.</p> <p>q Tool &amp; Die Design Production D 135 2 Cr.</p>	<p><b>Spring Semester</b></p> <p>q Industrial Applied Right Angle and Oblique Trigonometry I D 127 2 Cr.</p> <p>q Industrial First Aid I D 156 0.5 Cr.</p> <p>q Industrial Safety I D 157 1 Cr.</p> <p>q Basic CNC Machining I D 131 3 Cr.</p>
<b>Total Credits: 40.5</b>	

**Academic Advising:** <sup>Y</sup>

**Note:** <sup>Y</sup> .A. 30 (100 )

# Skilled Trades-Tool & Die Maker/Designer, Certificate

**Description:** This certificate program provides the student with the knowledge and skills necessary to enter the workforce as a tool and die maker/designer. The program includes instruction in the use of various types of cutting tools, the design of tools and dies, and the operation of various types of machine tools. **Completion Time:** 2.5 Years

**Completion Time:** 2.5 Years

Part-time spring start course schedule (Year 1)		Part-time spring start course schedule (Year 2)	
Year 1		Year 2	
<p><b>Fall Semester</b></p> <p>q Industrial Applied Algebra I D 122 2 Cr.</p> <p>q Industrial Communications D 103 2 Cr.</p> <p>q Introduction to CAD D 115 4 Cr.</p>		<p><b>Spring Semester</b></p> <p>q Industrial Applied Geometry I D 124 2 Cr.</p>	

**Total Credits: 40.5**

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