



# Machinist and Tool and Die Making: Certificate

<http://catalog.ivcc.edu/guidesheet/certificate/machinistandtoolanddiemaking/>



This Career Pathway Plan of Study is to serve as a guide as coursework may change. Other career planning materials may be used as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals.

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	Career and Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to This Pathway	
SECONDARY	9	English I	Algebra I Geometry	Physical Science	World History	Consumer Ed, Am. Gov., Speech		<ul style="list-style-type: none"> <li>•Assembler</li> <li>•Blacksmith</li> <li>•Gunsmith</li> <li>•Industrial Machinery Mechanic</li> <li>•Manufacturing Machine Operator</li> <li>•Mechanical Engineering Technician</li> <li>•Millwright</li> <li>•Model Maker</li> <li>•Sheet Metal Worker</li> <li>•Tool and Die Maker</li> <li>•Welder</li> </ul>	
	10	English II	Geometry Algebra II	Biology			Machine Skills I		
	11	AP English Language English III	Algebra II Pre-Calculus	Chemistry	US History	11th grade; Take IVCC Placement test	Machine Skills II		
	12	English IV	Pre-Calculus Calculus	Physics			<b>DUAL CREDIT COURSES*</b> (see high school counselor) The following courses may be offered as dual credit at the Area Career Center & some high schools <b>DFT 1200, MET 1202</b>		
To view detailed descriptions of the below courses, go to: <a href="http://catalog.ivcc.edu/courses/">http://catalog.ivcc.edu/courses/</a>									
POSTSECONDARY	13		<b>FALL</b> MTH 1206** Technical Mathematics I				<b>FALL</b> DFT 1203 Machine Blueprint Reading <b>SPRING</b> DFT 1200* Mechanical Drafting MET 1200 Inspection, Measurement & Quality		
	14						<b>FALL</b> MET 1202* Manufacturing Materials & Processes I <b>SPRING</b> MET 1203 Manufacturing materials & Processes II		
	15						<b>FALL</b> CNC 1200 Fundamentals of CNC Operations MET 1204 Tooling Processes I <b>SPRING</b> MET 1205 Tooling Processes II		
Year 16 Continue to Associate in Applied Science Degree									

\*\* Go to [www.catalog.ivcc.edu/autosubstitutions/](http://www.catalog.ivcc.edu/autosubstitutions/) to view allowed substitutions for required courses that may be offered as Dual Credit/Dual Enrollment at area high schools

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