



Manufacturing Technology: Associate in Applied Science

www.catalog.ivcc.edu/guidesheet/associate/manufacturingtechnology/



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"> •Assembler •Chemical Engineering Technician •Computer control programmers and operators •CNC setup operators •Cutting, punching, and press machine operators •Electrical Engineering Technician •Electronics Engineering Technician •Environmental Technician •Fabricator •Forming machine setters, operators, and tenders •Industrial Engineer •Industrial machinery mechanics •Logistics Specialist •Machinist •Machine tool cutting setters, operators, and tenders •Manufacturing Manager •Mechanical Engineering Technician •Millwright •Welders, cutters, solderers, and brazers •Material-moving Workers •Quality Controller
	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			<p style="color: red; margin: 0;">DUAL CREDIT COURSES* (see high school counselor)</p> <p style="margin: 0;">The following courses may be offered as dual credit at the Area Career Center & some high schools MET 1202, ELE 1206, CSP 1203, CAD 1200</p>	
To view detailed descriptions of the below courses, go to: http://catalog.ivcc.edu/courses/								
POSTSECONDARY	13	<u>SPRING</u> SPH 1204** Oral Communication Skills for Business, Industry and Technology	<u>FALL</u> MTH 1206** Technical Mathematics I			<u>Required Courses</u> HPE 1000** Wellness SDT 1203 Job Seeking Skills <u>Electives (9 semester hours)</u> ELE 1201, ELE 1206*, CSP 1203*, CNC 1202, CAD 1200*, CAD 2201, DFT 1200*, IMT 1220, WLD 1200* or any GNT course	<u>FALL</u> DFT 1203 Machine Blueprint Reading IMT 1208 Industrial Safety or GNT 1220 Intro to Manufacturing & OSHA 10-hr Safety IMT 1200 Equipment Maintenance MET 1202* Manufacturing Materials & Processes I <u>SPRING</u> CNC 1200 Fundamentals of CNC Operations MET 1200 Inspection, Measurement & Quality MET 1203 Manufacturing Materials & Processes II <u>SUMMER</u> MET 2206 Manufacturing Tech Internship	
	14	<u>FALL</u> ENG 1205** Written Communication Skills for Business, Industry and Technology			<u>SPRING</u> ECN 1202 Fundamentals of Economics PSY 2200** Human Relations in the World of Work	<u>FALL</u> ELE 1200 Basic Industrial Electricity I MET 1204 Tooling Processes I MET 2201 Statistical Quality Control Techniques <u>SPRING</u> IMT 1205 Industrial Hydraulics IMT 1206 Industrial Pneumatics MET 1205 Tooling Processes II		
Year 15 & 16 Continue courses in the area of specialization								

** Go to 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 3/9/16