



Industrial Maintenance: Certificate

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



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 11th grade; Take IVCC Placement test		<ul style="list-style-type: none"> •Assembler •Blacksmith •Gunsmith •Industrial Machinery Mechanic •Manufacturing Machine Operator •Mechanical Engineering Technician •Millwright •Model Maker •Sheet Metal Worker •Tool and Die Maker •Welder
	10	English II	Geometry Algebra II	Biology				
	11	AP English Language English III	Algebra II Pre-Calculus	Chemistry	US History			
	12	English IV	Pre-Calculus Calculus	Physics			DUAL CREDIT COURSES* (see high school counselor) The following courses may be offered as dual credit at the Area Career Center & some high schools WLD 1200	
To view detailed descriptions of the below courses, go to: http://catalog.ivcc.edu/courses/								
POSTSECONDARY	13		<i>SPRING</i> MTH 1206** Technical Mathematics I				<i>FALL</i> ELE 1200 Basic Industrial Electricity I IMT 1200 Equipment Maintenance IMT 1208 Industrial Safety OR GNT 1220 Intro Manufacturing & OSHA 10-hr Safety <i>SPRING</i> IMT 1206 Industrial Pneumatics IMT 1207 Pipefitting	
	14					<i>FALL</i> DFT 1203 Machine Blueprint Reading ELE 1202 Motors and Controls I OR ELE 1204 Programmable Logic Controllers I <i>SPRING</i> WLD 1200* Stick, Plate, Flat Arc Welding IMT 1205 Industrial Hydraulics IMT 1220 Rigging Systems		
Year 15 Continue to Associate in Applied Science Degree								

** 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 2/25/16