



13 Manufacturing Plan of Study



Sub-Pathways:

Precision Metal Production Pathway; Production Design, Operations, and Maintenance Pathway; Electromechanical Installation and Maintenance Pathway; Precision Technology Processes Pathway

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade
	English 9	Speech and Writing Experiences	American Literature and Advanced Writing or Guided Writing Projects	Contemporary Literature or Classical Literature and Guided Literature Projects
	Algebra 1 (or Geometry)	Geometry (or Algebra 2)	Algebra 2 (Pre-Calculus or Discrete Math)	Discrete Math, Pre-Calculus, or AP Statistics (or AP Calculus)
	Molecular Biology	Chemistry	Physics or Physical Science	Advanced Chemistry or Physics
	American Studies II	Contemporary American History or Historical Viewpoints	Modern Western Civilization or Geography or World Cultures	American Government and Economics or Psychology or Sociology
	Lifetime Fitness Education	PE/Health	PE/Health	PE/Health
	Computer Applications I			
Electives	<p>World Languages: In our global society, taking multiple years of a World Language is highly recommended for all post-secondary endeavors and is a requirement for many colleges.</p>			
	<p>Related High School Electives: Supplementary materials including the student 'Course Guide' showing elective course offerings that relate to each career cluster are available in the schools and on the district web site at: http://www.davenport.k12.ia.us/students.asp</p>			
	<p>Sample Focused Elective Sequences: With the diverse array of career opportunities available under each career cluster, there is no one right combination of elective course offerings. Students, in conjunction with parents, counselors and other caring adults must determine what is right for them. More details can be found at: http://davenportschools.org/curriculum/ACP/Foc_EI.pdf</p>			
	<p>Sample Career-Focused Elective Sequences Follow:</p>			
	<p>Welding: Basic Welding 0.5; Advanced Welding 0.5; Vocational Welding 3.0</p>			
	<p>Manufacturing-Related: Choose at least 3 units: Metals, Materials & Processes 0.5; Advanced Metals, Materials & Processes 0.5; Basic Welding 0.5; Advanced Welding 0.5; Vocational Welding 3.0; Introduction to Electronics 0.5; Alternative Energy Today 0.5; Earth Materials 0.5; Environmental Studies 0.5</p>			
<p><i>Work in Progress</i></p>				

Post-Secondary	Black Hawk College	Clinton, Muscatine & Scott	Iowa State University
	www.bhc.edu Electronics Computer Integrated Manufacturing Pipe Trades Electrician apprentice Machinist Apprentice Manufacturing Processes Patternmaker Apprentice Sheet Metal Apprentice Tool & Die Apprentice Warehouse & Distribution Welding	Mechatronics Manufacturing Maintenance Manufacturing Technology Pre-Engineering Machine Tool Production Electromechanical Systems Welding	www.iastate.edu Industrial & Manufacturing systems Industrial Technology Materials Science & Engineering Mechanical Engineering
Post-Secondary	Kirkwood Community College	University of Iowa	
	www.kirkwood.cc.ia.us Industrial Maintenance & HVAC Masonry construction Plumbing Technology Pre-Engineering Skilled Trades Welding	www.uiowa.edu Industrial Engineering Mechanical Engineering	
	Indian Hills Community College	Augustana College	University of Northern Iowa
	www.indianhills.edu Industrial Maintenance Machine Technology Robotics/Automation Welding	www.augustana.edu Engineering	www.uni.edu Industrial Technology
Hamilton Technical	Bradley University	Western Illinois University	
www.hamiltontechcollege.com Electronics Computer Integrated Manufacturing	www.bradley.edu Industrial & Manufacturing Engineering Mechanical Engineering	www.wiu.edu Construction Management Manufacturing Engineering Technology	
Career Enhancement Options	Work-based Learning Options	Short-Term Training Options	
	<input type="checkbox"/> Job-Shadowing: <input type="checkbox"/> Internship/Mentorship: <input type="checkbox"/> On-The-Job Training:	<input type="checkbox"/> Safety Training <input type="checkbox"/> Precision Machining <input type="checkbox"/> Welding I <input type="checkbox"/> Lean Manufacturing <input type="checkbox"/> Welding II <div style="text-align: center; font-size: 2em; color: blue; font-family: cursive;">Work in Progress</div>	

Parent/Guardian: Please sign and return this document indicating that you are aware of your student's career cluster interest and have reviewed the courses recommended for this particular cluster. These are only recommendations. Students will be able to customize their Academic Career Plans to best meet their postsecondary and career goals.

PRINT Student's Name/School

Parent/Guardian's Signature

Date