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service AREA: Applied Sciences, Technology, Engineering, and Manufacturing



Careers in manufacturing are focused on making the products we use every day – including food, cars and household goods. This cluster also includes many installation, maintenance and repair occupations. This is an area that is seeing a need for a skilled workforce, as there is a shortage of workers with the necessary skills to fill needed positions. Careers in this cluster often require a high school diploma or equivalent, plus some additional on-the-job or specialized training, or a two-year degree. Some occupations also require four-year degrees.



- » Health, Safety, and Environmental Assurance
- » Logistics and Inventory Control» Maintenance, Installation and
- Repair
- » Manufacturing Production Process Development
- » Production
- » Quality Assurance

pathway-plans

WANT A SUGGESTED ROADMAP FOR A CAREER IN WELDING? Check out the Welding Registered Apprenticeship Pathway Plan online at: www.dbqschools.org/vertex/

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» Assembler

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- » Design Engineer
- » Environmental Engineer
- » Foundry Worker
- » Freight, Stock and Material Mover
- » Health and Safety Representative
- » Labor Relations Manager
- » Logistician
- » Manufacturing Technician
- » Pattern and Model Maker
- » Production Manager
- » Quality Control Technician
- » Safety Engineer
- » Tool and Diemaker
- » Traffic Manager
- » Welder

DIVE DEEPER INTO CAREER OPTIONS!

www.dbqschools.org/ career-exploration

OR

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login to Kuder Navigator

(the Dubuque Community School District's career information system)

This page is meant to guide student course selection based on career interest and is not a comprehensive list of courses required for graduation from high school or for all 2-year and 4-year college-bound students.

- For comprehensive 4-year course recommendations, review pages 33-35.
- For comprehensive graduation requirements, review page 4.



CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Everyone will have a career – not everyone will go to college. Start charting your courses with CAREER TRAINING and proceed to 2-YEAR-DEGREE and 4-YEAR DEGREE based on your post-secondary plans.

CAREER TRAINING			
Recommended Courses:			
INT123	Manufacturing		
INT332	Metals		
INT363	Welding		
INT501/502	Introduction to Professional		
	Welding / Welding Registered		
	Apprenticeship		
WBL300	Employability Skills with Job		
	Shadowing		
WBL401	Internship		
Suggested Extension Courses:			
INT115	Engineering Drafting and		
	Design I		
INT117	Woodworking		
INT323	Electricity/Electronics		
INT385	Construction I		
INT413	Engineering Drafting and		
	Design II		

	2-YEAR DEGREE		
	Recommended Courses:		
Ð	ENG641	Composition I	
	INT355	Machine Operations I	
	INT401	Engineering I	
	INT402	Engineering II	
	MTH271/272	Algebra II	
	or MTH351	Applied Math I and	
	MTH352	Applied Math II	
	plus recomme	nded CAREER TRAINING courses	
	Suggested	Extension Courses:	
	SCI183	Physics	
	plus suggeste	d CAREER TRAINING courses	

4-YEAR DEGREE +			
Recommended Courses:			
ENG643 ENG644 MTH331/332 or MTH361 MTH362 SCI183	Public Speaking Composition II Pre-Calculus with Trigonometry Foundations of College Math <i>and</i> Math for Liberal Arts Physics		
<i>plus</i> recommended CAREER TRAINING <i>and</i> 2-YEAR DEGREE courses			
Suggested Extension Courses:			
ART113 ART114 SCI603	Art 2D Art 3D Environmental Science with Lab		
plus suggested CAREER TRAINING and 2-YEAR DEGREE courses			