

# Manufacturing Career Plan of Study

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

**Required Courses**

**Recommended Courses**

	<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
<b>HIGH SCHOOL COURSES</b>	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or Honors English 11	2 English Electives or AP English
	Algebra I or Honors Algebra II	Geometry or Honors Geometry	Algebra/Trig or Honors Pre-Calculus	Pre-Calculus, AP Calculus, Stats or AP Stats
	Biology, Advanced Biology, or Honors Biology	Chemistry, Advanced Chemistry, or Honors Chemistry	Physics, Advanced Physics, or Honors Physics	AP Physics, AP Biology, AP Chemistry, Anatomy & Physiology
	World Cultures	US History I / US History II	US History III or APUSH / Economics	
	PE 9 / Health	PE 10	PE 11	
	<b>Computer Requirement:</b> grade 7-12 Computer Applications, Computer Studies, Programming 1, or Intro to Auto CADD			
	<b>Possible Electives:</b> Art, Business, Global Language, Music	<b>Possible Electives</b> Art, Business, Global Language, Music	<b>Additional High School Electives:</b> Art, Business, Global Language, Music	
<b>Career Electives</b> Intro to Business Intro to Technology Systems Computer Applications Computer Science Computer Programming 1 & 2 Intro to Auto-CADD / advanced	<b>Career Electives</b> Manufacturing , communications Construction/Advanced Construction Project Lead the Way: Intro to Engineering (Greenfield) Computer Programming 3 Home Improvement, transportation	<b>Career Electives</b> Project Lead the Way: Engineering Design(Greenfield) Financial Literacy <b>Youth Options</b> Please see your counselor	<b>Career Electives</b> Project Lead the way (Greenfield) Co-op <b>Youth Options</b> Please see your counselor Welding (MATC)	
<b>CAREER OPTIONS</b>	<b>Occupations related to this career cluster:</b>			<b>Volunteer/Other Opportunities</b>
	Boilermakers, Chemical Plant Operators, Combination Welders, Dental Laboratory Technicians, Furniture Finishers, Gem Workers, Machine Operators, Oil Well Drillers, Assemblers, Calibrators, Production Supervisors, Biomedical Equipment Technicians, Bowling Alley Mechanics, Camera Technicians, Consumer Electronics Technicians, Electrical Appliance Servers, Gunsmiths, Laser Technicians, Locksmiths, Machinists, Maintenance Electricians and Mechanics, Electrical Engineers, Mechanical Drafters, Industrial Engineers, Tool & Die Makers, Electronics Inspectors, Mechanical Engineers, Quality Control Technicians, Communications & Operations Managers, Expeditors, Production Inspectors, and Environmental Engineers (HOT)  More occupations can be found at <a href="http://www.wiscareers.wisc.edu">www.wiscareers.wisc.edu</a> . (HOT) Job openings in these occupations are projected to increase by at least 27% over the next 10 years.			Numerous Volunteer Opportunities Available at: <a href="http://www.volunteermilwaukee.org">www.volunteermilwaukee.org</a>  Internships Job Shadowing Co-ops
<b>POST SECONDARY</b>	<b>Technical College</b>	<b>College/University</b>		<b>Military</b>
	<u>AAS/Associate Degree = 2 year program</u> Industrial Welding Technician Automation Systems Technology Environmental & Pollution Control Tech.  <u>Technical Diploma = 1 year program</u> Appliance Technician, Fluid Power Maintenance, Machine Tool Operation, Mechanical & Computer Drafting, Metal Fabrication/Welding, and Welding	Possible Majors/Degrees Engineering Manufacturing Technology Manufacturing Engineering Construction Engineering Industrial Management  More majors/degrees can be found at <a href="http://www.wiscareers.wisc.edu">www.wiscareers.wisc.edu</a> .		Construction Equipment Operators Welders & Metal Workers Ship Engineers Industrial Engineers  Obtain local recruiter contact information in guidance services.