



Maintenance, Installation & Repair Pathway

Manufacturing Career Cluster



This Program of Study plan should serve as a guide in the development of secondary and post-secondary course planning for students. Courses listed within this plan are only recommended and are indicative of the courses needed to complete a Program of Study. The following items need to be considered:

- Courses in the arts and humanities are valued by post-secondary institutions for their cognitive benefits and in communicating and expressing the ideas and emotions of the human spirit.

Grade	English	Math	Science	Social Studies	Other Required Courses	Pathway Electives Recommended	Credit Review	
	4.0	3.0	3.0	3.0	2.0	Recommended Sequence for Pathway (may adjust yearly as needed) [Minimum- 8.5 elective credits needed for graduation]	Grade	Graduation Credit Requirements
Grade 9	<ul style="list-style-type: none"> English 9 (1.0) -OR- Enriched English 9 (1.0) 	<ul style="list-style-type: none"> Algebra I (1.0) 	<ul style="list-style-type: none"> Earth Science (0.5) 	<ul style="list-style-type: none"> US History (0.5) 	<ul style="list-style-type: none"> Level I Physical Education (0.5) Health 9 (0.5) 	<ul style="list-style-type: none"> Metals/Welding I (1.0) -OR- Woodworking I (1.0) 	<ul style="list-style-type: none"> 9-12 9-12 	4.0 Required 2.0 Elective 6.0 Total
Grade 10	<ul style="list-style-type: none"> English 10 (1.0) -OR- Enriched English 10 (1.0) 	<ul style="list-style-type: none"> Geometry (1.0) -OR- Enriched Geometry (1.0) 	<ul style="list-style-type: none"> Biology (1.0) 	<ul style="list-style-type: none"> World Studies (1.0) -OR- AP European Studies (1.0) 	<ul style="list-style-type: none"> Level II Physical Education (0.5) 	<ul style="list-style-type: none"> Welding II (1.0) -OR- Woodworking II (TC) (1.0) 	<ul style="list-style-type: none"> 10-12 10-12 	4.5 Required 1.5 Elective 6.0 Total
Grade 11	<ul style="list-style-type: none"> English 11 (1.0) -OR- AP Language & Composition (1.0) 	<ul style="list-style-type: none"> Algebra II/ Trigonometry (1.0) -OR- Enriched Algebra II/Trigonometry (1.0) 	<ul style="list-style-type: none"> Physics (1.0) Biotechnology (0.75) (TC) 	<ul style="list-style-type: none"> Government (0.5) -OR- AP United States Government and Politics (0.5) 	<ul style="list-style-type: none"> Level III Physical Education (0.5) 	<ul style="list-style-type: none"> Introduction to Engineering Design (1.0) Preparation for College and Business Communications (1.0) Computer Integrated Manufacturing (1.0) Digital Electronics (1.0) 	<ul style="list-style-type: none"> 9-12 11-12 10-12 10-12 	4.0 Required 2.0 Elective 6.0 Total
Grade 12	<ul style="list-style-type: none"> English 12 (1.0) -OR- AP Literature & Composition (1.0) 	<ul style="list-style-type: none"> See post-secondary education institution for math requirements. 	<ul style="list-style-type: none"> See post-secondary education institution for science requirements. 	<ul style="list-style-type: none"> AP Psychology (1.0) -OR- Psychology (0.5) -OR- Sociology/Social Issues (0.5) AP Economics (0.5) -OR- Economics (0.5) 		<ul style="list-style-type: none"> Introduction to Electricity & Wiring (0.5) 	<ul style="list-style-type: none"> 9-12 	2.5 Required 3.0 Elective 5.5 Total

High School

Course Code Key (see course catalog for further details) AP Advanced Placement AS Advanced Standing TC Transcribed Credit YO Youth Options (0.5) Course is worth 0.5 credit (0.75) Course is worth 0.5 credit (non-TC) or 0.75 credit (TC) (1.0) Course is worth 1.0 credit	28 Credits Possible Credits Required Grades 9-12 15.0 Minimum Electives..... 8.5 Credits for Graduation 23.5	Other Related Courses and Activities (curricular, co-curricular, and extra-curricular) <ul style="list-style-type: none"> STEM Youth Apprenticeship (1.0/yr) Architecture & Construction Youth Apprenticeship (1.0/yr) School District Principles of Engineering (1.0) Computer Integrated Manufacturing (1.0) World Languages Microsoft Office Suite (TC) (0.5)
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Advisement provided through Student Services office and post-secondary transfer credits determined by college admissions counselors.
 Postsecondary credit transfer information also available at <http://www.uwsa.edu/tis>

Please visit the web site of institutions listed below for any program updates.

Post-Secondary Options	Baccalaureate Degree		Associate Degree Programs		Certificate/License
		<p><u>University of Wisconsin - Stout</u></p> <ul style="list-style-type: none"> • Manufacturing Engineering • Packaging • Plastics Engineering • Engineering Technology <p><u>University of Wisconsin - Platteville</u></p> <ul style="list-style-type: none"> • Industrial Engineering • Industrial Technology Management • Manufacturing Technology Management 	<p><u>University of Wisconsin - Madison</u></p> <ul style="list-style-type: none"> • Industrial Engineering <p><u>University of Minnesota – Twin Cities</u></p> <ul style="list-style-type: none"> • Manufacturing Technology 	<p><u>Chippewa Valley Technical College</u></p> <ul style="list-style-type: none"> • Air Conditioning, Heating, & Refrigeration Technology • Environmental Refrigeration, Air Conditioning, & Heating Service Technician • Industrial Mechanic • Machine Tooling Technics • Welding <p><u>Madison Area Technical College</u></p> <ul style="list-style-type: none"> • CNC Specialist Certificate • HVAC Certificate • Industrial Maintenance Technician • Industrial Maintenance Technician Certificate • Machine Tool Operations Certificate • Machine Tooling Technics • Welding 	
	<p>Adult Apprenticeship, On-the-Job Training or Other</p>		<p>Employment Options</p>		
		<p>Careers</p> <ul style="list-style-type: none"> • Biomedical Equipment Technician • Boilermaker • Communication system Installer/Repairer 	<ul style="list-style-type: none"> • Computer Maintenance Technician • Electrical • Facility Electrician 	<ul style="list-style-type: none"> • Industrial Electronic Installer • Industrial Machinery Mechanic • Industrial Maintenance 	