



Health, Safety and Environmental Assurance 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.
- Post-secondary institutions have varying course requirements for admission including World Languages.

High School	Grade	English	Math	Science	Social Studies	Other Required Courses	Pathway Electives Recommended	Credit Review	
	Required Credits	4.0	3.0	3.0	3.0	2.0	Recommended Sequence for Pathway (<i>may adjust yearly as needed</i>) [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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 (1.0) -OR- Enriched Algebra II/Trigonometry (1.0) 	<ul style="list-style-type: none"> Chemistry (1.0) 	<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 (TC) (1.0) Computer Integrated Manufacturing (1.0) 	<ul style="list-style-type: none"> 9-12 10-12 	<ul style="list-style-type: none"> 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"> Precalculus (1.0) -OR- AP Statistics (1.0) 	<ul style="list-style-type: none"> Physics (1.0) -OR- AP Physics: Mechanics (1.0) Environmental Science A (0.5) -OR- Environmental Science B (0.5) 	<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"> Preparation for College and Business Communications (1.0) 	<ul style="list-style-type: none"> 11-12 	<ul style="list-style-type: none"> 2.5 Required 3.0 Elective 5.5 Total 	
Course Code Key (see course catalog for further details)		28 Credits Possible			Other Related Courses and Activities (curricular, co-curricular, and extra-curricular)				
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		Credits Required Grades 9-12 15.0 Minimum Electives..... 8.5 Credits for Graduation 23.5			<ul style="list-style-type: none"> Skills USA Recreational Small Engines (0.5) Food Science (0.5) Auto Mechanics I (1.0) Introduction to Human Anatomy & Physiology (0.5) World Languages Health Occupations (0.5) Introduction to Electricity & Wiring (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 – Platteville</u></p> <ul style="list-style-type: none"> • Environmental Engineering <p><u>University of Wisconsin – Stevens Point</u></p> <ul style="list-style-type: none"> • Paper Science & Engineering <p><u>University of Wisconsin – Stout</u></p> <ul style="list-style-type: none"> • Risk Control (Masters Degree) 		<p><u>Chippewa Valley Technical College</u></p> <ul style="list-style-type: none"> • Food Manufacturing/Laboratory Technician • Manufacturing Engineering Technology 			
	Adult Apprenticeship, On-the-Job Training or Other			Employment Options		
				Careers	<ul style="list-style-type: none"> • Environmental Engineer • Environmental Specialist • Health and Safety Representative • Safety Coordinator • Safety Engineer • Safety Team Leader • Safety Technician 	