Manufacturing Production Process Development Pathway

Manufacturing Career Cluster



This Program of Study plan should serve as a <u>guide</u> 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 <u>arts</u> and <u>humanities</u> 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.

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C	Grade 9 Grade	4.0 • English 9 (1.0) -OR- • Enriched English 9 (1.0) • English 10 (1.0)	3.0 • Algebra I (1.0)	3.0 • Earth Science (0.5)	3.0 • US History (0.5)	2.0 • Level I Physical	Recommended Sequence for Pathway (may adjust yearly as needed) [Minimum- 8.5 elective credits needed for graduation]	Grade	Graduation Credit Requirements
	Grade 9 Grade	-OR- • Enriched English 9 (1.0)	• Algebra I (1.0)	• Earth Science (0.5)	• US History (0.5)	 Level I Physical 			
	Grade	• English 10 (1.0)				Education (0.5) • Health 9 (0.5)	Metals/Welding I (1.0) -OR- Woodworking I (1.0)	9-129-12	4.0 Required 2.0 Elective 6.0Total
	10	• Enriched English 10 (1.0)	• Geometry (1.0) -OR- • Enriched Geometry (1.0)	• Biology (1.0)	World Studies (1.0) -OR- AP European Studies (1.0)	Level II Physical Education (0.5)	Welding II (1.0) -OR- Woodworking II (TC) (1.0)	• 10-12 • 10-12	4.5 Required 1.5 Elective 6.0Total
High School		• English 11 (1.0) -OR- • AP Language & Composition (1.0)	Algebra II/ Trigonometry (1.0) -OR- Enriched Algebra II/Trigonometry (1.0)	• Physics (1.0)	Government (0.5) -OR- AP United States Government and Politics (0.5)	Level III Physical Education (0.5)	Introduction to Engineering Design (1.0) Preparation for College and Business Communications (1.0)	• 9-12 • 11-12	4.0 Required 2.0 Elective 6.0Total
G		• English 12 (1.0) -OR- • AP Literature & Composition (1.0)	See post- secondary education institution for math requirements.	See post-secondary education institution for science requirements.	AP Psychology (1.0) OR- Psychology (0.5) OR- Sociology/Social Issues (0.5) AP Economics (0.5) OR- Economics (0.5)		Computer Integrated Manufacturing (1.0)	• 10-12	2.5 Required 3.0 Elective 5.5Total
AP AS TC YO (0.:	Advance Advance Transcri Youth C .5) Course .75) Course	de Key (see course catalog ed Placement ed Standing ipted Credit options is worth 0.5 credit is worth 0.5 credit (non-TC) is worth 1.0 credit	C F	Credits Other Related Courses and Activities (curricular, co-curricular, and extra-curricular) Credits Required Grades 9-12					

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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

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	Baccalaure	ate Degree	Associate Degree Programs	Certificate/License		
Post-Secondary Options	University of Wisconsin - Stout Manufacturing Engineering Packaging Plastics Engineering Engineering Technology University of Wisconsin - Platteville Industrial Engineering Industrial Technology Management Manufacturing Technology Management	University of Wisconsin - Madison Industrial Engineering University of Minnesota - Twin Cities Manufacturing Technology	Chippewa Valley Technical College Air Conditioning, Heating, & Refrigeration Technology Environmental Refrigeration, Air Conditioning, & Heating Service Technician Industrial Mechanic Machine Tooling Technics Welding Madison Area Technical College CNC Specialist Certificate HVAC Certificate Industrial Maintenance Technician Industrial Maintenance Technician Certificate Machine Tool Operations Certificate Machine Tooling Technics Welding			
	Adult Apprenticeship, On-the-Job Training or Other		Employment Options			
1			 Design Engineer Electrical and Electronic Technician and Technologist Electronics Engineer Engineering and Related Technician and Technologist Industrial Engineer Labor Relations Manager Manufacturing Engineer Manufacturing Technician Power Generating and Reactor Plant Operator 	 Precision Inspector, Tester and Grader Process Improvement Technician Production Manager Purchasing Agent Supervisor 		