

Many CTE courses may qualify for dual enrollment credit, which in some cases may earn up to 1.0 credit toward Pathway completion. Talk to your school counselor about availability.

MONTANA CAREER PATHWAYS

Career and Technical Education



Area of Study: Industrial Trades and Technology Education Career Pathway: Advanced Manufacturing

		Caree			u Manufacturing				
Get the Facts		CAREER AND TECHNICAL EDUCATION						Careers in Advanced	
An Advanced Manufacturing				Recommended Pathway Courses				Manufacturing are:	
professional will offer designing	Studer			idents may select individual courses for exploration or				 High demand, high 	
and improving products,		a complete Pathway for an in-depth focus CLASS AVAILABILITY MAY VARY AT YOUR						skill, and high wage	
operating high-tech tools and									
machinery, analyzing problems		Course #	Foundation Courses (required) Credit				Career Examples		
and coming up with creative solutions, and working with both		13002				.50	h	Engineer	
your hands and your mind.		13003 Industrial Arts .50/1.0					Machine Operator		
your mands and your mind.		13201 Metalworking Occupations				.50	1.0 credit	 Precision Inspector 	
Workforce Trends	13054	Wood Processing Production .50			1.0 credit	Microchip			
With the continuous need of		13055	Metal Processing Production .50				Manufacturer		
skilled and knowledgeable		13056						Technician in	
	nployees in the advanced		Elective Courses					automated	
manufacturing, this pathway will			13101 Production Systems .50					manufacturing	
help provide employees that are		13102	Electromechanical Systems .50				4	Communication	
trained and work ready.		13103 Product Development .50					installer		
		13205	Sheetmetal		.50	1.0 credit	CNC Machinist		
With a current annual growth		13207	Weldi			.50	- 1.0 crean	l	
rate of 8.3%, the demand for		21108						According to the	
individuals with design and			13302 Equipment Maintenance and Repair .50					Montana Department of	
construction skills continues to		13203	Machi			.50		Labor & Industry, the median hourly wage for	
increase in Montana.		21107 CAD Design & Software .50						occupations within the	
	Foundation courses taken beyond the required credits can be used as elective credit. 2.0 credits for completion						Manufacturing Career		
		Additional CTE Credits are recommended for Pathway completion.						Pathway is \$34.57.	
State Graduation Requ	Suggested High School Plan of Study						College and Career		
High School		9th Grade Sugg	gested	10th Grade Suggested	11th Grade Suggested	12th Gr	ade Suggested	C	
Administrative Rules of Montana 10.55.905			,					There are many options	
English/Language Arts	glish/Language Arts 4.0			English 10 1.0	English 11 1.0	English 1	2 1.0	for education and	
Mathematics 2.0		Math* 1.0		Math* 1.0	Math* 1.0	Math* 1.0	0	training beyond high school, depending on	
Social Studies 2.0		Social Studies* .50/1.0		Social Studies* .50/1.0	U.S History 1.0	U.S. Gov	ernment 1.0	your career goals.	
Science	2.0	Earth Science 1.0		Biology 1.0	Science Elective*		*	Certificate Associate degree	
Health Enhancement	1.0	P.E./Health* .50		P.E./Health* .50	P.E./Health Electiv		ves*	Bachelor's degree	
Arts	1.0			Arts Courses* 1.0				On-the-job training	
Career and Technical Education 1.0		Pathway Foundation Course .50/1.0		Pathway Foundation Pathway Elective Course .50/1.0 .50/1.0		Pathway Elective Course .50/1.0		Apprenticeship	
Work-Based Learning	Participation in a Pathway-related work-based learning experience						For more information on salary projections,		
Career and Technical Student O	SkillsUSA								
*Talk to your school counselor about req elective requirements vary district to distr Many CTE courses may qualify for dual 1.0 credit toward Pathway completion. Ta		al enrollment course offerings vary by school and district. ny Montana post-secondary programs accept high school courses toward a two- and four-year degree and dual enrollment. Check with post-secondary campuses for details.							

www.mus.edu/mcp Revised April 2018

www.mus.edu/mcp Revised April 2018