

MONTANA CAREER PATHWAYS

Career and Technical Education



Area of Study: Agriculture, Food and Natural Resources

			Career Pa	thway: Plant Sys	stems	<u>, , , , , , , , , , , , , , , , , , , </u>	,	
Get the Facts	CAREER AND TECHNICAL EDUCATION						18	Careers in
The Plant Systems Pathway		Recommended Pathway Courses						Agriculture are:
encompasses the study of plant		Students may select individual courses for exploration or						High demand/High
life cycles, classifications,		a complete Pathway for an in-depth focus						skill/High wage
functions, structures,	CLASS AVAILABILITY MAY VARY AT YOUR SCHOOL							
reproduction, media and nutrients, as wells as growth and cultural		Cours		ndation Courses (required)		.5/1.0		Career Examples
practices through the study of		18001		, , ,			<u>-</u> h	Agronomist
crops, turf grass, trees, shrubs		18051				.50/1.0	1.0 credit	Botanist Greenhouse Manager
and/or ornamental plants		18052	General Horticulture 05./1.0					Soil Specialist Crop Farmer
Workforce Trends		18307	Agriculture and Society .50/1.0					
			Elective Courses			Landscape Management		
Nationwide, employment of		18002	2 Agriculture- Comprehensive (Ag II) .50/1.0			.50/1.0		Floriculturist
landscape architects is		18053		Ornamental Horticulture (Turf and Landscape Management (Plant Breeder
projected to grown five		18054	•					
percent through the year 2024.		18055	Soil Science			.50/1.0	→ 1.0 credit	According to the Montana
		18203		Agricultural Leadership		0.5/1.0		Department of Labor and Industry, the median
		18202	Agricultural Entrep	preneurship		0.5/1.0		hourly wage for
								occupations within Plant
		18098		kplace Experience (SAE)		.50/1.0		Systems is \$22.60.
				he required credits can be us mended for Pathway comple		it.	2.0 credits for completion	
								Callers and Carren
State Graduation Requirements					·		100 G 1 G 4 1	College and Career
High School Administrative Rules of Montana 10.55.905			9th Grade Suggested	10th Grade Suggested	11th Grade Su	ggestea	12th Grade Suggested	Beyond High School There are many options for
English/Language Arts		4.0	English 9 1.0	English 10 1.0	English 11 1.0		English 12 1.0	education and training beyond high school,
Mathematics		2.0	Math* 1.0	Math* 1.0	Math* 1.0		Math* 1.0	depending on your career goals. • Certificate
Social Studies 2.0		2.0	Social Studies* .50/1.0	Social Studies* .50/1.0	U.S History 1.0		U.S. Government 1.0	
Science	2.0		Earth Science 1.0	Biology 1.0	Science E		Elective*	Associate degree
Health Enhancement	1.0		P.E./Health* .50	P.E./Health* .50	P.E./Health		n Electives*	Bachelor's degree Professional degree
Arts		1.0	Arts Courses* 1.0					On-the-job training
Career and Technical Education 1.0		1.0	Pathway Foundation Course .50/1.0	Pathway Foundation Course .50/1.0 Pathway Elective .50/1.0		Course	Pathway Elective Course .50/1.0	ApprenticeshipMilitary training
Work-Based Learning			Participation in a Pathway-related work-based learning experience					For more information on
Career and Technical Student Organi	ization		National FFA Organization					salary projections, labor
 *Talk to your school counselor about requirements in the core curriculum. Core curriculum and elective requirements vary district to district. 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. Dual enrollment course offerings vary by school and district. Many Montana post-secondary programs accept high school courses toward a two- and four-year degree through dual enrollment. Check with post-secondary campuses for details. 								market demand, and training options, visit lmi.mt.gov .

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