



MONTANA CAREER PATHWAYS

Career and Technical Education



Area of Study: Agriculture, Food and Natural Resources

Career Pathway: Agriculture, Food and Natural Resources		18																																														
CAREER AND TECHNICAL EDUCATION		Recommended Pathway Courses																																														
<p>Get the Facts Students completing a program of study in AFNR will gain skills necessary for analysis of current and historical issues and trends; application of technologies; safety, health and environmental practices; stewardship of natural resources; and exploration of career opportunities.</p> <p>Workforce Trends According to the U.S. Department of Labor, employment one in seven Americans work in the agricultural related jobs.</p>		<p>Students may select individual courses for exploration or a complete Pathway for an in-depth focus</p> <p>CLASS AVAILABILITY MAY VARY AT YOUR SCHOOL</p> <table border="1"> <thead> <tr> <th>Course #</th> <th>Foundation Courses (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>18001</td> <td>Introduction to Agriculture (Ag I)</td> <td>.5/1.0</td> </tr> <tr> <td>18002</td> <td>Agriculture- Comprehensive (Ag II)</td> <td>.50/1.0</td> </tr> <tr> <td>18307</td> <td>Agriculture and Society</td> <td>.50/1.0</td> </tr> <tr> <td colspan="3" style="text-align:center">Elective Courses</td> </tr> <tr> <td>18003</td> <td>Agriculture and Natural Resources Comprehensive (Ag III)</td> <td>.50/1.0</td> </tr> <tr> <td>18004</td> <td>Agriculture, Food and Natural Resources –Aid</td> <td>.50/1.0</td> </tr> <tr> <td>18052</td> <td>Horticulture</td> <td>.50/1.0</td> </tr> <tr> <td>18101</td> <td>Animal Production/ Science</td> <td>.50/1.0</td> </tr> <tr> <td>18201</td> <td>Agricultural Business Management</td> <td>.50/1.0</td> </tr> <tr> <td>18203</td> <td>Agricultural Leadership</td> <td>.50/1.0</td> </tr> <tr> <td>18401</td> <td>Agricultural Mechanics</td> <td>.50/1.0</td> </tr> <tr> <td>18504</td> <td>Natural Resources Management</td> <td>.50/1.0</td> </tr> <tr> <td>18202</td> <td>Agricultural Entrepreneurship</td> <td>.50/1.0</td> </tr> <tr> <td>18998</td> <td>Agriculture, Food, and Natural Resources-Workplace Experience (SAE)</td> <td>.50/1.0</td> </tr> </tbody> </table> <p>Foundation courses taken beyond the required credits can be used as elective credit. Additional CTE Credits are recommended for Pathway completion →2.0 credits for completion</p>		Course #	Foundation Courses (required)	Credit	18001	Introduction to Agriculture (Ag I)	.5/1.0	18002	Agriculture- Comprehensive (Ag II)	.50/1.0	18307	Agriculture and Society	.50/1.0	Elective Courses			18003	Agriculture and Natural Resources Comprehensive (Ag III)	.50/1.0	18004	Agriculture, Food and Natural Resources –Aid	.50/1.0	18052	Horticulture	.50/1.0	18101	Animal Production/ Science	.50/1.0	18201	Agricultural Business Management	.50/1.0	18203	Agricultural Leadership	.50/1.0	18401	Agricultural Mechanics	.50/1.0	18504	Natural Resources Management	.50/1.0	18202	Agricultural Entrepreneurship	.50/1.0	18998	Agriculture, Food, and Natural Resources-Workplace Experience (SAE)	.50/1.0
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State Graduation Requirements		Suggested High School Plan of Study																																														
<p>High School Administrative Rules of Montana 10.55.905</p> <p>English/Language Arts 4.0</p> <p>Mathematics 2.0</p> <p>Social Studies 2.0</p> <p>Science 2.0</p> <p>Health Enhancement 1.0</p> <p>Arts 1.0</p> <p>Career and Technical Education 1.0</p> <p>Work-Based Learning</p> <p>Career and Technical Student Organization</p> <ul style="list-style-type: none"> *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. 		<p>9th Grade Suggested</p> <p>English 9 1.0</p> <p>Math* 1.0</p> <p>Social Studies* .50/1.0</p> <p>Earth Science 1.0</p> <p>P.E./Health* .50</p> <p>Pathway Foundation Course .50/1.0</p> <p>Participation in a Pathway-related work-based learning experience</p> <p>National FFA Organization</p>																																														
		<p>10th Grade Suggested</p> <p>English 10 1.0</p> <p>Math* 1.0</p> <p>Social Studies* .50/1.0</p> <p>Biology 1.0</p> <p>P.E./Health* .50</p> <p>Pathway Foundation Course .50/1.0</p> <p>Participation in a Pathway-related work-based learning experience</p>																																														
		<p>11th Grade Suggested</p> <p>English 11 1.0</p> <p>Math* 1.0</p> <p>U.S History 1.0</p> <p>Science Elective*</p> <p>P.E./Health Electives*</p> <p>Arts Courses* 1.0</p> <p>Pathway Elective Course .50/1.0</p>																																														
		<p>12th Grade Suggested</p> <p>English 12 1.0</p> <p>Math* 1.0</p> <p>U.S. Government 1.0</p> <p>Science Elective*</p> <p>P.E./Health Electives*</p> <p>Pathway Elective Course .50/1.0</p>																																														
<p>College and Career</p> <p>Beyond High School There are many options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none"> • Certificate • Associate degree • Bachelor's degree • Professional degree • On-the-job training • Apprenticeship • Military training <p>For more information on salary projections, labor market demand, and training options, visit lmi.mt.gov.</p>		<p>Careers in Agriculture are:</p> <ul style="list-style-type: none"> • High demand/High skill/High wage <p>Career Examples</p> <ul style="list-style-type: none"> • Agricultural Educator • Extension Agent • Livestock Broker • Greenhouse Worker • Ranch hand • Entrepreneur • Agricultural Sales & Services • Brand Inspector <p>According to the Montana Department of Labor and Industry, the median hourly wage for occupations within Business and Finance Operations is \$17.80.</p>																																														