



<p>Cluster Overview:</p> <p>Careers in the Agriculture, Food and Natural Resources cluster involve the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.</p>	<p>Pathway Options:</p> <ul style="list-style-type: none"> • Food Products and Processing Systems • Plant Systems • Animal Systems • Power, Structural & Technical Systems • Natural Resources Systems • Environmental Service Systems • Agribusiness Systems 	<p>Occupation Examples:</p> <p>Agricultural Chemical Dealer, Aquaculturalist, Environmental Compliance-Assurance Manager, Farm Manager, Health and Safety Sanitarian, Meat Cutter-Meat Grader, Park Manager, Produce Buyer, Recycling Technician, Wildlife Manager, Botanist, Agricultural Educator, Ecologist, Environmental Engineer, Fish and Game Officer, Bank Loan Officer, Plant Pathologist, Veterinarian</p> <p><i>For a complete listing, go to:</i> http://online.onetcenter.org/find/career?c=4&q=Go</p>
--	---	--

SUGGESTED HIGH SCHOOL COURSES

Based on State Graduation Requirements and Montana College Admissions Criteria: <http://mus.edu/admissions.asp>
For more information, talk to your school counselor

<p>9th</p>	<p>Graduation Requirements 2-Year College Prep</p>	<p>English, Math, Earth Science (lab science), Health Enhancement</p>	<p>Cluster Foundation Courses: Ag Science I Ag Science II Intro to Natural Resources Information Technology</p> <p>Pathway Courses: Ag Science III Ag Science IV Wildlife Biology</p> <p>Student Organization(s): FFA</p> <p><i>Supervised Agricultural Experience (SAE) and participation in appropriate FFA activities support and reinforce classroom and laboratory learning and should be a requirement for all students.</i></p>
	<p>4-Year MT College/Univ Prep (Rigorous Core)</p>	<p>English, Algebra I, Earth (lab) Science, Health Enhancement and 3 years of the following: World Language/Computer Science/Visual or Performing Arts/Career & Tech Ed</p>	
	<p>Career-Related Electives</p>	<p>Cluster Foundation Courses</p>	
<p>10th</p>	<p>Graduation Requirements 2-Year College Prep</p>	<p>English, Math, Biology (lab science), Global Studies</p>	
	<p>4-Year MT College/Univ Prep (Rigorous Core)</p>	<p>English, Geometry, Biology, Global Studies, and 3 years of the following: World Language/Computer Science/Visual or Performing Arts/Career & Tech Ed</p>	
	<p>Career-Related Electives</p>	<p>Cluster/Pathway Courses</p>	
<p>11th</p>	<p>Graduation Requirements 2-Year College Prep</p>	<p>English, U.S. History, Visual/Performing Arts</p>	
	<p>4-Year MT College/Univ Prep (Rigorous Core)</p>	<p>English, U.S. History, Algebra II, Chemistry or Physics and 3 years of the following: World Language/Computer Science/Visual or Performing Arts/Career & Tech Ed</p>	
	<p>Career-Related Electives</p>	<p>Pathway Courses</p>	
<p>12th</p>	<p>Graduation Requirements 2-Year College Prep</p>	<p>English, Government</p>	
	<p>4-Year MT College/Univ Prep (Rigorous Core)</p>	<p>English, Government, Social Studies, College Prep Writing, (additional math encouraged), and 3 years of the following: World Language/Computer Science/ Visual or Performing Arts/Career & Tech Ed</p>	
	<p>Career-Related Electives</p>	<p>Pathway Courses</p>	

ADVANCED LEARNING OPPORTUNITIES

High School to College/Career Linkages

<p>Tech Prep courses:</p>
<p>Advanced Placement courses:</p>
<p>Running Start opportunities:</p>
<p>Work-based Learning:</p>
<p>On-line Learning:</p>

MONTANA POSTSECONDARY OPPORTUNITIES

Montana University System Degree and Program Inventory: <http://www.homepage.montana.edu/~mus/drginv/>
Your Guide to Montana's Certificate and Associate Degree Programs: <http://mus.edu/twoyear/YourGuide.html>

Colleges of Technology: BLCOT—Billings; GFCOT—Great Falls; HCOT—Helena; TECHCOT—Butte; UMCOT—Missoula	Community Colleges: DCC—Glendive; FVCC—Kalispell; MCC—Miles City	Tribal Colleges: BFCC—Browning; CDKC—Lame Deer; FBCC—Harlem; FPCC—Poplar; LBHC—Crow Agency; SCC—Box Elder; SKC—Pablo	Four Year Colleges/Universities: MSU—Bozeman; MSUB—Billings; MSUN—Havre; TECH—Butte; UM—Missoula; UMW—Dillon
MILITARY	<ul style="list-style-type: none"> Requires diploma or GED 17 with parental consent; 18 without 	Air Force, Air Guard, Army, Coast Guard, Marines, and Navy For more information: http://todaysmilitary.com	
PROFESSIONAL CERTIFICATE	<ul style="list-style-type: none"> Requires diploma or GED Less than 30 credits; little/no general ed credits Complete in one year or less 	Ag Mechanics Machinery/Technology--MSUN	
APPRENTICESHIP	<ul style="list-style-type: none"> Requires diploma or GED Must be at least 18 Minimum 2,000 hours of supervised experience 	Farm Equipment Mechanics See the MT Dept of Labor website for more information: http://wsd.dli.mt.gov/apprenticeship/default.asp	
CERTIFICATE OF APPLIED SCIENCE	<ul style="list-style-type: none"> Requires diploma or GED 30-45 credits; limited general education credits Complete in one year or less 	Agriculture—MCC Agricultural Marketing & Financial Analysis—DCC Agricultural Mechanics & Machinery—DCC	
ASSOCIATE'S OF APPLIED SCIENCE DEGREE	<ul style="list-style-type: none"> Requires diploma or GED 60-72 credits; includes 15-25 general ed credits Complete in two years (<i>if prepared academically in math and English</i>) 	Agriculture Mechanics Technology—MSUN Agricultural Science/Technology--CDKC Agricultural Technology—MSUN Agri-Business Technology—DCC Ag Mechanics & Machinery—DCC Environmental Science—SKC, MSUB, BFCC Forestry—SKC, BFCC Natural Resources—FVCC Outdoor Recreation--DCC	
BACCALAUREATE DEGREE	<ul style="list-style-type: none"> Requires 4-year college prep for admission 128 credits (approximately) Complete in four years 	Agriculture—MSU Biological Sciences—MSU Earth Sciences—MSU Environmental Engineering—TECH Environmental Science—UMW, SKC Forestry & Conservation—UM, SKC Mining Engineering—TECH Resource Conservation—UM Wildlife Biology—UM	