



## Career Plan of Study—Baker High School



**Pathway Options:** Food Products and Processing Systems, Plant Systems, Animal Systems, Power, Structural & Technical Systems, Natural Resources Systems, Environmental Service Systems, Agribusiness Systems

**Overview:** Careers in the Agriculture, Food and Natural Resources cluster involve the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.

**This plan of study should serve as a guide, along with other career planning materials, as you continue your career path.** Courses listed within this plan are only recommended coursework and should be individualized to meet each learner’s educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

	9th Grade	10th Grade	11th Grade	12th Grade
<b>High School</b>	*English 9      *Math	*English 10      *Math	*Composition 11/English Electives	*Composition 12/English Electives
	*PE/Health      *Computer Apps I	*PE/Health      *Biology	Or AP English	Or AP English
	*Earth Science		*US History      *Math	*US Government
	*World History		*Speech	
	<b>Career Electives:</b> Ag Science I, Computer Applications II or higher	<b>Career Electives:</b> Ag Science II, Beginning Ag Welding/Small Engines, Computer Apps., Construction, Drafting, Intro to Bus, business law	<b>Career Electives:</b> Ag Science III, Drafting, Adv. Ag Welding, Computer Applications, AP Biology, Anatomy & Physiology, Chemistry, Intro to Business, Business Law, Accounting I,	<b>Career Electives:</b> Ag Science IV, Adv. Ag Mechanics, Chemistry, Physics, Accounting I, Accounting II, Sociology,
<b>Sample of Post Secondary Degrees</b>	<b>2 Year College/Vo-Tech</b>		<b>College/University</b>	
	<b>Casper</b> – Ag, Environmental Science, Renewable Energy, Extractive Resources Technology <b>Dawson CC</b> - Livestock Tech, Agri-Business <b>Flathead Valley CC</b> —Natural Resource Mgmt, Integrated Ag and Food Systems	<b>Miles CC</b> —Agri-Business, Ag, Ag Production, Equine Management, Animal Sciene (pre-vet, livestock, nutrition) <b>NW Powell</b> – Equine, Farm & Ranch Mgmt, Farrier, Range Mgmt, Vet asst, Ag busi/communication/ed/production, Animal Sci, Natural Resource Biology, Agroecology <b>Sheridan</b> – Ag-Sci, Ag-Busi, Animal and Food Sci, Farrier, Natural Resources and Ranchland, Horticulture	<b>BHSU</b> – Environmental Physical Sci <b>Carroll</b> - Environmental Studies, Pre-vet, <b>DSU</b> – Ag-Studies/Sales and Service, Equine <b>MSU</b> —Ag Business, Ag Education, Animal Sci./Range Sci, Geospatial and Environmental Analysis, Land Rehab, Natural Resource/Rangeland Ecology, Plant Science, Sustainable Food and Bioenergy Systems, Water Resources <b>MSU-B</b> – Environmental Studies <b>MSU—Northern</b> —Agri– Mechanics, Ag Operations, Applied Ag <b>MT Tech</b> —Mining, Geological, Petroleum & Environmental Engineering <b>RMC</b> – Equestrian Studies, Environment Sci/Studies <b>UGF</b> – Pre-Vet <b>U of M</b> —Environmental Studies, Forestry, Wildlife Biology, Resource Conservation, Climate Change Studies, Ecological Restoration, Systems Ecology <b>U of M Western</b> —Equine, Environmental Sci., Equine Mgmt, Natural Horsemanship	
<b>Activities &amp; Employment</b>	<b>Suggested Extra-Curricular Activities</b>		<b>Suggested Volunteer/Employment Opportunities</b>	
	FFA—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. 4-H		Farm/Ranch Work Grain Elevator Farm to Table (Glendive)	Retail Ag Supply Sales Veterinarian Assistant

\* Required for graduation at BHS



## Advanced Learning Opportunities - High School to College/Career Linkages

Dual Credit Course: See School Counselor for available opportunities

Advanced Placement: See BHS Schedule for AP offerings

Online Learning: Approval of online credits must be obtained from Principal

<b>Sample Occupations and Degree Areas</b>	<b>Military</b>	<b>Associate's Degree</b>
	<ul style="list-style-type: none"> <li>◆ Requires High School Diploma or GED</li> <li>◆ 17 years old with parental consent, 18 without</li> <li>◆ For more information go to: <a href="http://todaysmilitary.com">http://todaysmilitary.com</a></li> </ul>	<ul style="list-style-type: none"> <li>◆ Requires diploma or GED</li> <li>◆ 60-72 credits; includes 15-25 general education credits</li> <li>◆ Complete in 2 years (<i>if prepared academically in math and English</i>)</li> <li>◆ Examples: Agri-Business Technology, Equine Studies</li> </ul>
	<b>Professional Certificate</b>	<b>Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>◆ Requires High School Diploma or GED</li> <li>◆ Less than 30 credits; little/no general education credits</li> <li>◆ Complete in one year or less</li> <li>◆ Examples: Agri-mechanics Machinery/Technology</li> </ul>	<ul style="list-style-type: none"> <li>◆ Requires 4-year college prep for admission</li> <li>◆ Approximately 128 credits</li> <li>◆ Complete in four years</li> <li>◆ Examples: Agriculture Business, Animal Science, Environmental Engineering, Mining Engineering, Geological Engineering, Environmental Science, Botanist, Agricultural Educator, Ecologist, Fish and Game Warden</li> </ul>
	<b>Apprenticeship</b>	<b>Graduate Degree</b>
	<ul style="list-style-type: none"> <li>◆ Requires High School Diploma or GED</li> <li>◆ Must be at least 18</li> <li>◆ Minimum 2,000 hours of supervised experience</li> <li>◆ Examples: Farm Equipment Mechanics</li> </ul>	<ul style="list-style-type: none"> <li>◆ Requires education beyond Bachelor's Degree</li> <li>◆ Examples: Veterinarian, Plant Pathologist, Advanced studies are available in all areas of Agriculture, Food, &amp; Natural Resources</li> </ul>
	<b>Certificate of Applied Science</b>	
<ul style="list-style-type: none"> <li>◆ Requires High School Diploma or GED— Complete in 1 year or less</li> <li>◆ 30-45 credits; limited general education credits</li> <li>◆ Examples: Agri-Business, Livestock Technology, Natural Resource Mgmt.</li> </ul>		
<b>Requirements</b>	<b>Baker High School Graduation</b>	<b>Montana University System College Entrance</b>
	4 credits English 3 credits Social Studies 3 credits Math 2 credits Science (1 Physical, 1 Biological) 2 credits PE/Health 1 credit Fine Arts 1 credit Vocational/Practical Arts (.5 must be Document Formatting) .5 credit Speech 5.5 credits Electives <b>TOTAL 22 CREDITS</b>	4 credits English 3 credits Social Studies 3 credits Math (Algebra I, II, and Geometry) 2 credits Science 2 credits Electives  Rigorous Core Courses include: 1 additional credit Math 1 additional credit Science 1 additional credit Elective Visit <a href="http://www.mus.edu">www.mus.edu</a> for further information