



Pathway: Agriculture and Natural Resources

Plan of Study: Agriculture Science and Production

Career Goal (O*Net Code): Students will be preparing to enter in to a career in Agriculture Science and production field.

Valley High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	English I, Pre Algebra, Algebra I or Geometry, Earth Science, Economics and Ancient Civilization, PE I and Health and CPR	Suggested Electives: Spanish, Art, Intro to Business, Accounting I, Drafting, Band or Choir, Art
		Career Path Courses:	Agriculture One	
10 th	Core Academic Courses*:	English II, Algebra, algebra II or Geometry, Biology, US History, PE II	Suggested Electives: Spanish or German, PE, Weight lifting, Drafting, CADD	
	Career Path Courses:	Agriculture II		
11 th	Core Academic Courses*:	Writing Process and Form, College Writing, Algebra II, College Algebra, College Trigonometry, Biology II, World History	Suggested Electives: Drafting, CADD, Accounting, Business Law, Art	
	Career Path Courses:	Ag Science – Plant Science		
12 th	Core Academic Courses*:	English Electives, Pre Calculus, Chemistry, American Government,	Suggested Electives: Computer Or Web Classes,	
	Career Path Courses:	Ag Science – Animal Science		

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Insert Options Here: ACP, Dual Credit, Senior release to take Aims Classes
	Industry Recognized Certificate(s) or License(s):

		Colorado Postsecondary Programs Available	Colorado Institutions	Entrance Exams/ Requirements
Postsecondary Education Opportunities	Certificate	Veterinary Tech, Pesticide Applicator,	www.collegeincolorado.org Front Range Community College, Northeastern Junior College, Lamar Community College, Bell Rea Institute, Nebraska College of Technical Agriculture	
	Associate Degree	Crop Science, Animal Science, Pre Veterinary	www.collegeincolorado.org Front Range Community College, Northeastern Junior College, Lamar Community College, Nebraska College of Technical Agriculture	
	Bachelor Degree	Crop and Soil Science, Animal Science, Meat Science, Agronomy, Bio Genetics Food Science	www.collegeincolorado.org Colorado State, Wyoming, Texas Tech, Oklahoma State, Perdue, Kansas State Nebraska	
	Graduate Degree	Crop and Soil Science, Animal Science, Meat Science, Agronomy, Bio Genetics Food Science Veterinary Medicine	www.collegeincolorado.org Colorado State, Wyoming, Texas Tech, Oklahoma State, Perdue, Kansas State Nebraska	

Cluster Overview: The **Agricultural, Food and Natural Resources** cluster focuses on careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.

Extended Learning Experiences		
Curricular Experiences: FFA, FBLA, VICA and FCCLA	Extracurricular Experiences: MASA, Athletics, Jazz Band, LULAC, Theater Club, Key Club	
Work-Based Learning Experiences: FFA – Supervised Ag Experience FBLA – Work COOP	Program Accreditation and/or Professional Association(s):	
Service Learning Experiences:		
Career Options:		Salary Range:
Certificate	Pesticide Applicator Veterinary Technician Feedlot Hospital Technician	\$
Associate Degree	Pesticide Applicator Veterinary Technician Feedlot Hospital Technician	\$-\$-\$
Bachelor Degree	Crop advisor, Range Specialist, Animal Reproduction Specialist, Embryo Transfer Specialist, Bio Chemist, Bio Genetic Engineer	\$\$-\$\$\$
Graduate Degree	Bio Chemist, Genetic Engineer, Veterinarian, Zoologist	\$\$\$-\$\$\$\$

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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