



Pathway: Animal Science

Plan of Study: Agricultural Production & Service

Career Goal (O*Net Code): Agricultural Crop Farm Managers (11-9011), Agricultural Technicians (19-4011), Livestock Producers (45-2021), Agriculture Educator

Suggested High School Courses

Hi-Plains High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	Freshman English, Algebra & Geometry, Physical Geology, World Geography, Freshman PE	Suggested Electives: Computer Applications, Business Management, Band, Choir, Art, Woods
		Career Path Courses:	Fundamentals of Agricultural Science & Technology A/B	
	10 th	Core Academic Courses*:	Sophomore English, Advanced Algebra & Geometry, Biology, Speech	Suggested Electives: Multimedia, Marketing, Business Law, Band, Choir, Art, Woods
		Career Path Courses:	Animal Science A/B	
	11 th	Core Academic Courses*:	Junior English, Pre-Calculus, Chemistry, American History	Suggested Electives: Web Design, Entrepreneurship, Band, Choir, Art, Woods
		Career Path Courses:	Animal Production A/B	
	12 th	Core Academic Courses*:	Senior English, Calculus, Physics, American Government	Suggested Electives: Practical Business, Accounting, Band, Choir, Art, Woods
		Career Path Courses:	Advanced Agricultural Science & Technology A/B	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options:
	Morgan Community College dual credit
	Industry Recognized Certificate(s) or License(s):

Postsecondary Education Opportunities	Postsecondary Programs Available in Colorado		Colorado Institutions	Entrance Exams/Requirements
	Certificate	Ag Production, Ag Business Management	NJC, LCC, TSJC, SJBTC, MCC	High School diploma or GED
	Associate Degree	Ag Production	LCC, NJC Out of State – Colby CC, LCCC (WY)	High School diploma or GED
	Bachelor Degree	Agribusiness Management, Livestock Production, Agronomy	CSU Out of State – KSU, UW	See each school's Admissions website.
	Graduate Degree	NA	NA	NA

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 Farm Business Management Ag Sales Marketing Plan Competition FBLA	Extracurricular Experiences: Colorado Farm Show National Western Stock Show Ag Outlook Forum Career Development Events Stratton Equity COOP Farm Show	
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships SAEP	Program Accreditation and/or Professional Association(s): Society of Range Managers Livestock Breed Associations (Angus, Hereford, etc.)	
Service Learning Experiences: FFA, 4-H		
Career Options:		Salary Range:
Certificate	Farmer/Rancher, Pesticide Applicator, Insect Scout	\$
Associate Degree	Animal Health Tech, Farm/ Ranch Manager	\$\$
Bachelor Degree	Animal Repro Technician, Certified crop Advisor, Agricultural Researcher, Chemical Salesperson, Cooperative Extension Agent	\$\$\$-\$\$\$\$
Graduate Degree	Veterinary Scientist, Plant Scientist, Soil Scientist, Plant Breeder, Range Scientist, State Extension Agronomist	\$\$\$\$-\$\$\$\$\$

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

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