



Pathway: Agribusiness Systems

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

High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	English I, Algebra I, Physical Science, and Civics	Suggested Electives: Physical Education, Spanish I, or Art
		Career Path Courses:	Introduction to Agricultural Science & Technology—AG I	
	10 th	Core Academic Courses*:	English II, Geometry, Algebra II, Biology, and World History	Suggested Electives: Computer Applications, Art, and/or band
		Career Path Courses:	Fundamentals of Agricultural Science & Technology—AG II	
	11 th	Core Academic Courses*:	English III, College Algebra or Algebra II, Physics or Chemistry, Government	Suggested Electives: Spanish II, Art, Band, Adv Ag Project Construction, or PE
		Career Path Courses:	Advanced Ag Education	
	12 th	Core Academic Courses*:	English Comp and/or Speech and Lit., Calculus, A&P, Chemistry, Western Civilization, Foreign Language	Suggested Electives: Spanish II, Art, Band, Adv Ag Project Construction, or PE
		Career Path Courses:	Animal Science/Farm Carpentry/Ag Econ/ Welding semester classes	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Dual Credit, PSEO, Articulated Credit--Animal Science and Crop Science with CSU, ABM Challenge with LCC
	Industry Recognized Certificate(s) or License(s): Certification procedures are in place for various certificates such as vet tech or welding certifications.

		Postsecondary Programs Available in Colorado	Colorado Institutions	Entrance Exams/ Requirements
Postsecondary Education Opportunities	Certificate	Ag Production, Ag Business Management	NJC, LCC, TSJC, SJBTC, MCC	High School diploma or GED
	Associate Degree	Ag Production	LCC, NJC	High School diploma or GED
	Bachelor Degree	Agribusiness Management, Livestock Production	CSU	See each school's Admissions website.
	Graduate Degree	Animal Nutrition, Ag Business Management, Masters of Agriculture	CSU	Follow schools admission procedures. Usually standard entrance test and application process.

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

<p>Curricular Experiences:</p> <p>FFA Farm Business Management Ag Sales Marketing Plan Competition</p>	<p>Extracurricular Experiences:</p> <p>Colorado Farm Show National Western Stock Show Ag Outlook Forum</p>
<p>Work-Based Learning Experiences:</p> <p>Career Preparation – Paid and Unpaid, Job Shadowing, Internships</p>	<p>Program Accreditation and/or Professional Association(s):</p> <p>Colorado Young Farmers, Local Alumni Programs, various accreditations and other local professional associations.</p>
<p>Service Learning Experiences:</p> <p>FFA, 4-H</p>	

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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