



**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**

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

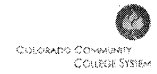
**Secondary to Postsecondary Linkages & Certifications**

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

**Postsecondary Programs Available in Colorado**

<b>Postsecondary Education Opportunities</b>		Colorado Institutions		Entrance Exams/ Requirements
		Program	Institutions	
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.	

Career & Technical Education is delivered through the Colorado Community College System  
[www.cccs.edu](http://www.cccs.edu)



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