



Pathway: Agribusiness Systems

Highland High School

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 Admission Requirements	Grade	Suggested High School Courses		Suggested Electives
		Core Academic Courses*	Career Path Courses	
* Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	English, Algebra I, Earth of Environmental Science, Geography	Suggested Electives: Physical Education
		Career Path Courses:	Introduction to Agricultural Science & Technology	
	10 th	Core Academic Courses*:	English II, Geometry, Biology, Foreign Language	Suggested Electives: Computer Applications
		Career Path Courses:	Fundamentals of Agricultural Science & Technology	
	11 th	Core Academic Courses*:	English III, Algebra II/ or other, Chemistry, US History	Suggested Electives: Accounting Entrepreneurship
		Career Path Courses:	Advanced Agricultural Science & Technology I	
	12 th	Core Academic Courses*:	English IV, Trigonometry or other Math, Physics or other lab based science	Suggested Electives: Accounting Entrepreneurship
		Career Path Courses:	Advanced Agricultural Science & Technology II or Plant Science, Animal Science, or Agricultural Mechanization, Food and Food Processing	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Articulated Credit, AIMS Career Academy
	Industry Recognized Certificate(s) or License(s):

Postsecondary Education Opportunities	Degree/Certificate	Postsecondary Programs Available in Colorado	Colorado Institutions	Entrance Exams/ Requirements
		Certificate	Ag Production, Ag Business Management	NJC, LCC, TSJC, SJBTC, MCC
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	Agriculture Education, Integrated Resource Management, Agricultural Extension, Peace Corps, Master International Program	CSU	See each school's Admissions website.	

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 – Career Development Events <ul style="list-style-type: none"> • Farm Business Management • Ag Sales • Ag Communications • Job Interview • Parliamentary Procedures • Prepared Speaking • Extemporaneous Speaking • Marketing Plan Colorado FFA State Convention National FFA Convention	Extracurricular Experiences: Colorado Farm Show National Western Stock Show Ag Outlook Forum	
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships SAE (Supervised Agricultural Experience) Exploratory, Placement, Enterprises	Program Accreditation and/or Professional Association(s): FFA Alumni Association Agri-Business Association at CSU Collegiate Farm Bureau NAMA (National Agricultural Marketing Association)	
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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