



Pathway: Natural Resources/Animal Science

Plan of Study: Agricultural Animal Production

Career Goal (O*Net Code): Agricultural worker 45-2099.99

Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	English I, Integrated Math I, Integrated Science I, World History, P.E./Health	Suggested Electives: Fine Art and or Practical Art
		Career Path Courses:	Agri-Science I	
	10 th	Core Academic Courses*:	English II, Integrated Math II, Biology, World Geography, Foreign Language I/Civics-Econ	Suggested Electives: Fine Art and or Practical Art
		Career Path Courses:	Agri-Science II	
	11 th	Core Academic Courses*:	English III, Integrated Math III, Chemistry, US History, Speech, Life Skills	Suggested Electives: Ag-Welding
		Career Path Courses:	Agri-Science III	
	12 th	Core Academic Courses*:	English IV, Trigonometry or other Math, Physics or other lab based science	Suggested Electives: Ag Structures
		Career Path Courses:	Agri-Science IV	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: AIMS Safety for Welder, Allied Cutting Processes, Oxyacetylene Joining Processes, Basic Shielded Metal Arc Welding I, Gas Metal Arc Welding I
	Industry Recognized Certificate(s) or License(s): Basic Shielded Metal Arc Welding I, Gas Metal Arc Welding I

Colorado Postsecondary Programs Available

Colorado Institutions

Entrance Exams/ Requirements

Postsecondary Education Opportunities	Certificate	Welding Technician Certificate Production Ag, Agribusiness, Equine MGT, Pesticide/fertilizer applicator	www.collegeincolorado.org AIMS Northeastern Junior College	
	Associate Degree	Animal Science Equine Science Crop and Soil Science	www.collegeincolorado.org Northeastern Junior College	High School Diploma or GED
	Bachelor Degree	Animal Science Equine Science Crop and Soil Science	www.collegeincolorado.org Colorado State University	High School Diploma or GED. For SAT/ACT score and GPA requirements, refer to each school's website.
	Graduate Degree	Animal Science Equine Science Crop and Soil Science	www.collegeincolorado.org Colorado State University	High School Diploma or GED. For SAT/ACT score and GPA requirements, refer to each school's 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: Weld Central FFA Chapter, Colorado FFA Association, National FFA Organization	Extracurricular Experiences: Colorado State Fair Career Development Events National Western Stock Show	
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships and apprenticeships	Program Accreditation and/or Professional Association(s):	
Service Learning Experiences: Community Service, Youth Church Group, 4-H		
Career Options:		Salary Range:
Certificate	Farm worker Labor, Farm Worker Farm and Ranch Animals Ag Equipment Operator, Farmer and Ranchers	\$
Associate Degree	Farmer and Rancher	\$\$
Bachelor Degree	Farmer and Rancher	\$\$
Graduate Degree	Farmer and Rancher	\$\$

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

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