



Pathway: Animal Science

Plan of Study: Animal Sciences

Career Goal (O*Net Code): Animal Breeder 45-2021, Animal Technician, Artificial Insemination Technician, Ranch Operator, Animal Care Supervisor, Cattle Manager, Animal Caretaker Supervisor 39-2021, Dairy Manager, Farm Supervisor, Feed Manager, Herdsman

Suggested High School Courses

Cheyenne Wells High Schools	9 th	Core Academic Courses*:	English 1, Biology, Civics/American History, Algebra 1, Word processing	Suggested Electives: Physical Education, Band, Choir, Art
		Career Path Courses:	Introduction to Ag Science & Technology	
	10 th	Core Academic Courses*:	English II, Geometry, Physical Science, World History, Foreign Language Computer Concepts	Suggested Electives: Business Math,
		Career Path Courses:	Fundamentals of Agricultural Science & Technology or	
	11 th	Core Academic Courses*:	American History 2, English III, Algebra II, Chemistry or Anatomy	Suggested Electives: Accounting, Record Keeping, PC Application, Ag Shop
		Career Path Courses:	Advanced Agriculture Sciences, or Natural Resources	
	12 th	Core Academic Courses*:	English IV or Comp1-2, Trigonometry or other math, Anatomy & Physiology or other lab based science, American Govt or College Govt	Suggested Electives: Ag Shop, Speech
		Career Path Courses:	Advanced Animal Sciences , or Natural Resources, or *ASC 100(Hybrid)	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: *Dual Enrollment in ASC 100 Agribusiness Statewide Articulation Agreement AGE 102 or 205.
	Industry Recognized Certificate(s) or License(s): Artificial Insemination Certification,

		Postsecondary Programs Available in Colorado	Colorado Institutions	Entrance Exams/ Requirements
Postsecondary Education Opportunities	Certificate	Animal Tech Inspector of Agricultural Products Animal Trainer	Lamar Community College, NJC,	
	Associate Degree	Animal Tech, Animal Breeder, Vet Tech, Zoo keeping	Bel Rae Institution, PPCC Community College of Denver Front Range Comm. College Colorado Mountain College Northeastern Junior College	High School Diploma or GED and completion of BIO 111, ENG 121, HPR 178 at "C" or better.
	Bachelor Degree	Animal Science Equine Studies Biochemistry Biomedical Studies	Colorado State University For other programs, see: www.collegeincolorado.com	High School Diploma or GED. For SAT/ACT score and GPA requirements, refer to each school's website.
	Graduate Degree	Doctor of Veterinary Medicine Master of Science, Animal Science MS & PhD in Biochemistry MS & PhD in Biomedical Science	Colorado State University University of Colorado (Boulder, Denver/Health Sciences & Colorado Springs)	DVM admission requires 60 semester hours in specific courses. See: http://www.cvmbs.colostate.edu/cvmbs/PreprofessionalCourses.htm MS & PhD programs require BS in related field.

Career & Technical Education is delivered through the Colorado Community College System

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

<p>Curricular Experiences:</p> <p>Examples: Colorado FFA Association CDE'S Livestock Evaluation, Dairy Evaluation Horse Evaluation Agriscience Fair</p>	<p>Extracurricular Experiences:</p> <p>Examples: State and County Fair National Western Stockshow County/Local livestock show/fair Farm Bureau Exchange Programs</p>
<p>Work-Based Learning Experiences:</p> <p>Career Preparation – Paid and Unpaid, Job Shadowing, Internships, Apprenticeship</p>	<p>Program Accreditation and/or Professional Association(s):</p> <p>Examples: Post-Secondary Agricultural Students Association (PAS) Colorado Veterinary Medical Association American Society of Animal Science</p>
<p>Service Learning Experiences:</p> <p>Examples: Community Service Volunteer, 4-H, Boy Scouts of America, Girl Scouts of the USA, Animal Rescue, Petting Zoos, Animal Emergency Response</p>	

Career Options:		Salary Range:
Certificate	Animal Tech Inspector of Agricultural Products Animal Trainer	\$
Associate Degree	Animal Tech, Animal Breeder, Vet Tech	\$ - \$\$
Bachelor Degree	Animal Science Equine Studies Biochemistry Biomedical Studies	\$\$-\$\$\$
Graduate Degree	Doctor of Veterinary Medicine Master of Science, Animal Science MS & PhD in Biochemistry MS & PhD in Biomedical Science	\$\$ - \$\$\$\$

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

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