



Pathway: Animal Science

Plan of Study: Animal Health - Veterinary Technology

Career Goal (O*Net Code): Examples:
 Veterinarian (29-1131), Veterinary Technician (29-2056), Veterinary Assistant (31-9096).

Suggested High School Courses

High School	9 th	Core Academic Courses*:	English1, Physical Science, Algebra1, Health, World History	Suggested Electives: Computer Applications
		Career Path Courses:	Introduction to Agriculture Education	
* Default includes CDHE Higher Education Admission Requirements	10 th	Core Academic Courses*:	English II, Geometry, Spanish, American History, Biology	Suggested Electives: Ag Mechanics
		Career Path Courses:	Introduction to Agriculture Science	
	11 th	Core Academic Courses*:	English III, Algebra II, Chemistry, Civics	Suggested Electives: Humanities, A.I.
		Career Path Courses:	Principles of Animal Science	
	12 th	Core Academic Courses*:	English IV, College Algebra****, Anatomy***,	Suggested Electives: History 201/202**, Ag Mechanics
		Career Path Courses:	Ag Tech or ASC 100(Hybrid)*	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options:
	Dual Enrollment in ASC 100*, History 201/202**, Anatomy***, College Algebra****
	Industry Recognized Certificate(s) or License(s): Artificial Insemination Certification,

Postsecondary Education Opportunities	Postsecondary Programs Available in Colorado		Colorado Institutions	Entrance Exams/ Requirements
	Certificate	Veterinary Technician Zoo Keeper Animal Shelter Operator Brand Inspector		Colorado Mountain College Front Range Community College Northeastern Junior College Community College of Denver
Associate Degree	Veterinary Technology		Bel Rae Institution 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.cvmb.colostate.edu/cvmb/PreprofessionalCourses.htm MS & PhD programs require BS in related field.

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 Livestock Evaluation Dairy Evaluation Horse Evaluation Agriscience Fair</p>	<p>Extracurricular Experiences:</p> <p>Examples: Colorado State Fair National Western Stockshow County/Local livestock show/fair</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	Veterinary Technician Zoo Keeper Animal Shelter Operator Brand Inspector	\$
Associate Degree	Veterinary Technician Veterinary Assistants and Laboratory Animal Caretakers	\$ - \$\$
Bachelor Degree	Animal Nutritionist, Agricultural Researcher Mammalogist, Ornithologist Reptilian Biologist, Herpetologist	\$\$
Graduate Degree	Licensed Veterinarian, Veterinary Surgeon Research Facility Manager Veterinary Livestock Inspector	\$\$ - \$\$\$\$

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

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