



## 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 * Default includes CDHE Higher Education Admission Requirements	9 <sup>th</sup>	Core Academic Courses*:	English 9, Algebra IA or IB, Integrated Science, Civics, Freshmen Physical Education and Health	Suggested Electives: Business Applications Keyboarding
		Career Path Courses:	Introduction to Agriculture Science & Technology	
	10 <sup>th</sup>	Core Academic Courses*:	World Literature, Algebra II, College Prep Biology, World History, World Language I	Suggested Electives: Art I, Art II, Pottery Nutrition and Wellness I
		Career Path Courses:	Fundamentals of Agricultural Science & Technology	
	11 <sup>th</sup>	Core Academic Courses*:	Early/Modern American Literature, Geometry, Chemistry, US History	Suggested Electives: Agriculture On the Job Training Nutrition and Wellness II Marketing
		Career Path Courses:	Agriculture Sciences or Agribusiness and Leadership	
	12 <sup>th</sup>	Core Academic Courses*:	English Electives, College Algebra or other math, Human Anatomy & Physiology	Suggested Electives: Agriculture On the Job Training Entrepreneurship Business Law
		Career Path Courses:	Agriculture Sciences, Ag Econ *or Agriculture Mechanics	

#### Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	<b>Postsecondary Credit Options:</b> *Agribusiness Statewide Articulation Agreement AGE 102 or 205 or Dual enrollment in Ag Econ 102
	<b>Industry Recognized Certificate(s) or License(s):</b> 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, Pikes Peak CC
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: <a href="http://www.collegeincolorado.com">www.collegeincolorado.com</a>	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: <a href="http://www.cvmb.colostate.edu/cvmb/PreprofessionalCourses.htm">http://www.cvmb.colostate.edu/cvmb/PreprofessionalCourses.htm</a> 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	
<b>Curricular Experiences:</b>  Examples: Colorado FFA Association Livestock Evaluation Dairy Evaluation Horse Evaluation Agriscience Fair	<b>Extracurricular Experiences:</b>  Examples: Colorado State Fair National Western Stockshow County/Local livestock show/fair Farm Bureau Exchange Programs
<b>Work-Based Learning Experiences:</b>  Career Preparation – Paid and Unpaid, Job Shadowing, Internships, Apprenticeship	<b>Program Accreditation and/or Professional Association(s):</b>  Examples: Post-Secondary Agricultural Students Association (PAS) Colorado Veterinary Medical Association American Society of Animal Science
<b>Service Learning Experiences:</b>  Examples: Community Service Volunteer, 4-H, Boy Scouts of America, Girl Scouts of the USA, Animal Rescue, Petting Zoos, Animal Emergency Response	

Career Options:		Salary Range:
Certificate	<b>Veterinary Technician</b> <b>Zoo Keeper</b> <b>Animal Shelter Operator</b> <b>Brand Inspector</b>	\$
Associate Degree	<b>Veterinary Technician</b> <b>Veterinary Assistants and Laboratory Animal Caretakers</b>	\$ - \$\$
Bachelor Degree	<b>Animal Nutritionist, Agricultural Researcher</b> <b>Mammalogist, Ornithologist</b> <b>Reptilian Biologist , Herpetologist</b>	\$\$
Graduate Degree	<b>Licensed Veterinarian, Veterinary Surgeon</b> <b>Research Facility Manager</b> <b>Veterinary Livestock Inspector</b>	\$\$ - \$\$\$\$

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

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