



## 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

<b>Wiggins High School</b> * Default includes CDHE Higher Education Admission Requirements	9 <sup>th</sup>	<b>Core Academic Courses*:</b>	English I; Intro to Algebra, Algebra I, Algebra II or Honors Geometry; Physical Science; World Geography;	<b>Suggested Electives:</b> Keyboarding & Computer I Band, Choir &/or Art
		<b>Career Path Courses:</b>	<b>Introductory to Ag Science &amp; Technology</b>	
	10 <sup>th</sup>	<b>Core Academic Courses*:</b>	English II; Algebra II, Geometry, or Honors Geometry; Biology I; World History;	<b>Suggested Electives:</b> Band, Choir &/or Art Speech; Physical Education or Weights
		<b>Career Path Courses:</b>	<b>Fundamentals of Agricultural Science &amp; Technology</b>	
	11 <sup>th</sup>	<b>Core Academic Courses*:</b>	Expository Writing; Algebra II, Geometry, or Honors Geometry; Biology II, Chemistry or Physics; U.S History;	<b>Suggested Electives:</b> Band, Choir &/or Art; Speech; Spanish I; Physical Education or Weights
		<b>Career Path Courses:</b>	<b>Agri Science / Ag Business; Ag Mechanics</b>	
	12 <sup>th</sup>	<b>Core Academic Courses*:</b>	English or American Literature; Advanced Math, or other math; Biology II, Chemistry or Physics; American Government;	<b>Suggested Electives:</b> Band, Choir &/or Art; Speech; Spanish II; Physical Education or Weights
		<b>Career Path Courses:</b>	<b>Agri Science / Ag Business; Ag Mechanics</b>	

#### Secondary to Postsecondary Linkages & Certifications

<b>Recognition for Advanced Learning</b>	<b>Postsecondary Credit Options:</b> Dual Enrollment in English Comp I & II; College Algebra; Agribusiness Statewide Articulation Agreement AGE 102 or 205.
	<b>Industry Recognized Certificate(s) or License(s):</b> Artificial Insemination Certification,

		Postsecondary Programs Available in Colorado	Colorado Institutions	Entrance Exams/ Requirements
<b>Postsecondary Education Opportunities</b>	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 Community College	
	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.cvmbs.colostate.edu/cvmbs/PreprofessionalCourses.htm">http://www.cvmbs.colostate.edu/cvmbs/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>		<b>Extracurricular Experiences:</b>
Examples: Colorado FFA Association Livestock Evaluation Dairy Evaluation Equine Evaluation Meats Evaluation Farm Management Agriscience Fair		Examples: Colorado State Fair National Western Stockshow County Fair & Local Livestock Shows Farm Bureau Exchange Programs
<b>Work-Based Learning Experiences:</b>		<b>Program Accreditation and/or Professional Association(s):</b>
Career Preparation – Paid and Unpaid, Job Shadowing, Internships, Apprenticeship		
<b>Service Learning Experiences:</b>		Examples: Post-Secondary Agricultural Students Association (PAS) Colorado Veterinary Medical Association American Society of Animal Science
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 Zoo Keeper Animal Shelter Operator Brand Inspector</b>	\$
Associate Degree	<b>Veterinary Technician Veterinary Assistants and Laboratory Animal Caretakers</b>	\$ - \$\$
Bachelor Degree	<b>Animal Nutritionist, Agricultural Researcher Mammalogist, Ornithologist Reptilian Biologist , Herpetologist</b>	\$\$
Graduate Degree	<b>Licensed Veterinarian, Veterinary Surgeon Research Facility Manager Veterinary Livestock Inspector</b>	\$\$ - \$\$\$\$

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

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