



## Pathway: Animal Systems

### Plan of Study: Animal Science

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

#### Suggested High School Courses

High School	9 <sup>th</sup>	Core Academic Courses*:	English I, Integrated Science, Physical Education, World Cultures, Pre-Algebra	Suggested Electives:	Integrated Science Honors
		Career Path Courses:	Agriculture Education I		
* Default includes CDHE Higher Education Admission Requirements	10 <sup>th</sup>	Core Academic Courses*:	English II, Algebra I, Biology, Health, Weight Training, Speech	Suggested Electives:	Biology, Life Science
		Career Path Courses:	Agriculture Education II, Computers in Agriculture		
	11 <sup>th</sup>	Core Academic Courses*:	English III, Geometry, American History, Chemistry	Suggested Electives:	AP Biology, Chemistry
		Career Path Courses:	Agribusiness/ Animal Science or Animal Science 100*		
	12 <sup>th</sup>	Core Academic Courses*:	English IV, Algebra II, American Government/ Civics	Suggested Electives:	Any of the above
		Career Path Courses:	Agribusiness/ Crop Science or Animal Science 100"		

#### Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	<b>Postsecondary Credit Options:</b> *Dual Enrollment in ASC 100 through Northeastern Junior College
	<b>Industry Recognized Certificate(s) or License(s):</b> Artificial Insemination Certification

#### Postsecondary Programs Available in Colorado

#### Colorado Institutions

#### Entrance Exams/ Requirements

Postsecondary Education Opportunities	Certificate	Postsecondary Programs Available in Colorado	Colorado Institutions	Entrance Exams/ Requirements
		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: <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.	

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

[www.cccs.edu](http://www.cccs.edu)



COLORADO COMMUNITY COLLEGE SYSTEM

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

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

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

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