



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 th	Core Academic Courses*:	English I, Algebra I, Physical Science, History1&2, Spanish I, 2 semesters of PE	Suggested Electives: N/A
		Career Path Courses:	Introduction to Ag Science	
	10 th	Core Academic Courses*:	English II, Geometry, Biology, Fundamental Geography and american Government, Spanish II, PE/Drivers ED	Suggested Electives: N/A
		Career Path Courses:	Introduction to Agriscience / Ag. Business	
	11 th	Core Academic Courses*:	English III, Algebra II/ or other,20th & 21st Century Issues/Colorado History,Advanced Biology	Suggested Electives: Word processing Business Technology Ag Welding
		Career Path Courses:	Animal Science /Online Animal Science at LCC**	
	12 th	Core Academic Courses*:	English IV, Intro to Statistics or other Math, Science of Biology dual credit*	Suggested Electives: Business foundations/ Recordkeeping, Ag. Mechanics, Work-study program, Chemistry
		Career Path Courses:	Veterinary technology/ Equine science	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Dual Enrollment in ASC 100** Dual enrollment in BIO 105*
	Industry Recognized Certificate(s) or License(s):

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 Community College
Associate Degree	Veterinary Technology Zoo keeping		Bel Rae Institution Community College of Denver Front Range Comm. College Colorado Mountain College Northeastern Junior College Pikes Peak Community 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 Farm Bureau Exchange Programs</p>	
<p>Work-Based Learning Experiences:</p> <p>Career Preparation – Paid and Unpaid, Job Shadowing, Internships, Apprenticeship</p> <p>Neil Parmelli, DVM</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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