



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*:	9th Grade English, Algebra I, Earth and Space Science, World Geography, Physical Education I (One Semester), Health (One Semester)	Suggested Electives: (Choose Two) PC Applications I & II Intro. to Business and Sales Business Law Colorado History World Language I
		Career Path Courses:	Introduction to Ag Science & Technology	
	10 th	Core Academic Courses*:	10th Grade Speech and Composition (One Semester), 10th Grade Literature (One Semester), Geometry, Biology, World History, World Language I, Physical Education (Two Semesters)	Suggested Electives: (Choose One) Chemistry I Nutrition & Wellness Personal Finance/Economics Principles of Accounting I & II Advanced PC Applications
		Career Path Courses:	Fundamentals of Agricultural Science & Technology	
	11 th	Core Academic Courses*:	American Literature, Algebra II, Chemistry, U.S. History, Foreign Language II, Fine Art	Suggested Electives: (Choose One) Microbiology Environmental Science AP Biology Responding to Emergencies Business Management
		Career Path Courses:	Agriscience-Animal Science Emphasis	
	12 th	Core Academic Courses*:	College Comp and Lit, College Algebra/Trigonometry, American Government/Civics (One Semester)	Suggested Electives: (Choose Three) Any above course NOT Taken Chemistry II College Prep Physics World Language III
		Career Path Courses:	Ag Business-Animal Emphasis	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Dual Enrollment in ASC 100
	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.cvmbs.colostate.edu/cvmbs/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		
Curricular Experiences: Examples: Colorado FFA Association Livestock Evaluation Dairy Evaluation Horse Evaluation Agriscience Fair	Extracurricular Experiences: Examples: Colorado State Fair National Western Stockshow County/Local livestock show/fair Farm Bureau Exchange Programs	
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships, Apprenticeship	Program Accreditation and/or Professional Association(s): Examples: Post-Secondary Agricultural Students Association (PAS) Colorado Veterinary Medical Association American Society of Animal Science	
Service Learning Experiences: 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	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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