



Pathway: Animal Science

Rifle High School Plan of Study: Animal Science- General

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*:	Freshman English, Algebra I, Integrated Science I, Geography, Intro to Computers, Physical Education, Music Theory I, Band, Basic Art	Suggested Electives: Music Theory I, Band, Basic Art
		Career Path Courses:	Agriculture Education I	
	10 th	Core Academic Courses*:	Sophomore English, Integrated Science II, Geometry, Algebra II, World History, Spanish I, Health, Web Design, Office Operations, Band	Suggested Electives: Web Page Design, Office Operations, Band
		Career Path Courses:	Agriculture Education II	
	11 th	Core Academic Courses*:	Junior English, Algebra II/ or other, Chemistry, Physics or Anatomy and Physiology, Spanish II, US History, Drawing, Music, Advanced Web Page Design, Career Development	Suggested Electives: Agriculture Mechanics, Agriculture Welding, Agriculture Marketing, Band
		Career Path Courses:	Animal Science	
	12 th	Core Academic Courses*:	Senior English, College English, Pre-Calculus, Chemistry, Physics or Anatomy and Physiology, American Government, Band, Economics, Introduction to Photography	Suggested Electives: Agriculture Mechanics, Agriculture Welding, Band, Economics, Introduction to Photography
		Career Path Courses:	Advanced Agriculture Science	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Dual Credit classes are available through Lamar Community College and Northeastern Jr. College Animal Science, Agriculture Economics, Agriculture Mechanics, Welding
	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	Colorado State University	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.
	MS & PhD in Biochemistry MS & PhD in Biomedical Science	University of Colorado (Boulder, Denver/Health Sciences & Colorado Springs)	

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: Colorado FFA Association Livestock Evaluation Dairy Evaluation Horse Evaluation Agriscience Fair		Extracurricular Experiences: Colorado State Fair National Western Stock Show Garfield County Fair Various Livestock Shows	
Work-Based Learning Experiences: Career Preparation – Paid and Unpaid, Job Shadowing, Internships, Apprenticeship		Program Accreditation and/or Professional Association(s): Post-Secondary Agricultural Students Association Colorado Veterinary Medical Association American Society of Animal Science	
Service Learning Experiences: 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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