South Dakota CTE

Advanced Animal Science (18107) (2022)

Understand and use safe practices. ADAN 1	1	**Demonstrate safe use and knowledge of tools and equipment used in animal science.** ADAN 1.1
	2	**Demonstrate workplace/worksite safety procedures and protocols.** ADAN 1.2
Select proper health care practices for animals. ADAN 2	1	**Choose prevention and treatment programs for animal diseases, parasites, and disorders.** ADAN 2.1
	2	**Discuss how to provide biosecurity for animals, people, and facilities.** ADAN 2.2
Develop proper nutrition management practices to optimize animal performance. ADAN 3	1	**Assess nutritional elements as they affect animal performances.** ADAN 3.1
	2	**Develop feed rations to provide for animals' nutritional needs.** ADAN 3.2
Select reproductive practices to optimize animal production. ADAN 4	1	**Identify management practices in breeding that account for high quality animals.** ADAN 4.1
Articulate medical terminology as it relates to animals. ADAN 5	1	**Recognize relevant medical terminology related to animals.** ADAN 5.1
	2	**Apply medical terminology in the correct context.** ADAN 5.2
Classify, evaluate, and select animals based on anatomical and physiological characteristics. ADAN 6	1	**Apply principles of anatomy and physiology to uses within various animal systems.** ADAN 6.1
	2	**Analyze information and make connections pertaining to the interrelatedness of various body systems.** ADAN 6.2
Utilize principles of veterinary tools and techniques. ADAN 7	1	**Identify veterinary tools and practices.** ADAN 7.1
	2	**Apply proper veterinary techniques to medical situations.** ADAN 7.2

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Develop employability skills related to the Animal Systems Pathway. ADAN 8	1 **Develop soft skills to enhance employability.** ADAN 8.1
Develop employability skills related to the Animal Systems Pathway. ADAN 9	1 **Develop an individual project plan with goals and timeline.** ADAN 9.1
	2 **Explore opportunities within AFNR industries.** ADAN 9.2
	3 **Apply concepts of financial management appropriate to agricultural projects and personal finances.** ADAN 9.3
	4 **Develop and document knowledge and skills to ensure workplace safety regarding personal health and environmental management.** ADAN 9.4
	5 **Research and analyze how public policy, laws, and advocacy impact agricultural systems and agricultural literacy.** ADAN 9.5