South Dakota CTE

Fundamental Animal Science (18101) (2022)

Examine animal anatomy and physiology of domestic animals. AN 1	1	**Recognize and distinguish animals by species, breed, gender or use.** AN 1.1
	2	**Analyze the parts and functions of an animal's internal and external anatomy.** AN 1.2
Analyze animal health indicators and responses. AN 2	1	**Evaluate the essential factors that determine the health status of an animal.** AN 2.1
	2	**Analyze and investigate proper response to poor animal health and the proper usage and effects of animal health products.** AN 2.2
Demonstrate understanding of practices that promote safe human and animal interactions. AN 3	1	**Evaluate an animal's behavior and determine a strategy to safely work with it.** AN 3.1
	2	**Examine and assess animal housing, equipment, and handling facilities for the safety of animals and humans.** AN 3.2
	3	**Critique management practices that support environmentally sustainable animal production.** AN 3.3
Distinguish elements of proper animal nutrition. AN 4	1	**Compare an animal's differing nutritional needs throughout its life cycle.** AN 4.1
	2	**Prepare a feed ration according to animal nutrient requirements.** AN 4.2
Study the reproductive system of animals. AN 5	1	**Examine and compare male and female reproductive systems.** AN 5.1
	2	**Discuss reproductive cycles and breeding techniques.** AN 5.2
	3	**Identify essential elements of breeding soundness and readiness in males.** AN 5.3
	4	**Define and identify elements of estrus, gestation and parturition.** AN 5.4
Identify factors that affect an animal's pe	1	**Predict genetic outcomes.** AN 6.1
		ssess an operation to determine if an animal has reached its optimum erformance level. AN 6.2

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	3	**Recommend management strategies for animals performing at sub optimal level.** AN 6.3
Examine animal industry issues. AN 7	1	**Compare and contrast consumer concerns related to animal food products.** AN 7.1
	2	**Define common terminology related to animal welfare.** AN 7.2
	3	**Analyze consumer perceptions related to animal welfare.** AN 7.3
Develop employability skills related to the Animal Systems Pathway. AN 8	1	**Develop soft skills to enhance employability.** AN 8.1