North Carolina CTE

Equine Science II (2016): Grades 9, 10, 11, 12

Adopted 2016

Understand leadership qualities involved in successful employment. 1.00	**01.** Understand leadership qualities and career building techniques desired by the equine industry. 1.01
	02. Understand parliamentary procedure. 1.02
Understand the Supervised Agricultural Experience component of the equine science program. 2.00	**01.** Understand SAE components and application to work-based learning. 2.01
	02. Understand a financial statement. 2.02
Understand the physiology and functions of equine body systems. 3.00	**01.** Understand body surfaces, systems, and how they function. 3.01
	02. Understand how four functional muscle groups affect equine movement and different gaits of equine. 3.02
Apply principles for selecting equine for the herd. 4.00	**01.** Understand how structure, body dimensions, and other factors influence usefulness, vigor, and longevity of equine. 4.01
	02. Apply principles to determine the age and weight of equine in relation to their usefulness, vigor, and longevity of equine. 4.02
Apply principles of nutrition and feed management. 5.00	**01.** Understand the major nutrient requirements of equine and the factors that affect them. 5.01
	02. Understand the classes of feed for equine including forage, concentrates, additives, and supplements needed in the equine ration. 5.02
	03. Apply principles to formulate a balanced ration for equine. 5.03
Apply principles of facility management 6.00	**01.** Understand the funtions of equine housing and paddocks including fencing needs. 6.01
	Apply principles of bedding and stall maintenance and waste management. 6.02

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Apply principles of herd health management. 7.00	**01.** Apply techniques to test vital life signs and adminster first aid in equine management. 7.01
	02. Apply prinicples of dental and hoof care in equine management. 7.02
	03. Apply principles of health management in diagnosing and treating internal parasites, external parasites, and diseases. 7.03
Understand principles of equine reproduction and gentics. 8.00	**01.** Understand the principles of equine reproduction management in relation to the mare, stallion, and foal. 8.01
	02. Understand basic equine breeding techniques and the advantages of each. 8.02
	03. Understand the role of genetics in determining age, coat color, and type of equine and how traits are transferred from one equine to another. 8.03
Apply principles of equine handling safety and training. 9.00	**01.** Apply principles to safely catch, halter, lead, tie, and restrain equine. 9.01
	02. Apply principles to train foals, yearlings, and two-year olds. 9.02
Apply principles of equitation and showmanship. 10.00	**01.** Apply principles of bridling and saddling equine. 10.01
	02. Apply principles to safely mount and ride equine for the designated gait. 10.02
	03. Apply principles in judging halter and performance classes of equine, considering factors such as lameness, blemishes, conformation and other factors. 10.03