

Veterinary Science (2021-)

Assess animal production methods for use in animal systems based upon their effectiveness and impacts. [AFNR.HS.29.1](#)

- a** Summarize the challenges involved in working with animals and identify resources available to overcome those challenges (e.g., tools, technology, equipment, facilities, animal behavior signals). [AFNR.HS.29.1.A](#)
- b** Investigate animal husbandry practices and their impact on animal welfare. [AFNR.HS.29.1.B](#)
- c** Compare the efficacy of different production methods and defend the use of selected methods using data and evidence. [AFNR.HS.29.1.C](#)

Apply principles of comparative anatomy and physiology to uses within various animal systems. [AFNR.HS.29.2](#)

- a** Compare and contrast animal cells, tissues, organs, body system types, and functions among species. [AFNR.HS.29.2.A](#)
- b** Correlate the functions of animal cell structures to animal systems (e.g., growth, development, health, reproduction). [AFNR.HS.29.2.B](#)
- c** Summarize the effect of anatomical and physiological disorders on animal health. [AFNR.HS.29.2.C](#)
- d** Apply knowledge of anatomical and physiological characteristics of animals to make production, care, and management decisions. [AFNR.HS.29.2.D](#)

Investigate methods of preventing and treating animal diseases, parasites, and other disorders to ensure animal welfare. [AFNR.HS.29.3](#)

- a** Describe and demonstrate the proper use and function of specific tools and technology related to animal health management. [AFNR.HS.29.3.A](#)
- b** Summarize the characteristics and symptoms of disorders that affect animals (e.g., wounds, common diseases, parasites, and physiological disorders) and example treatments. [AFNR.HS.29.3.B](#)
- c** Explain the clinical significance of common veterinary methods and treatment (e.g., aseptic techniques, antibiotic use, wound management). [AFNR.HS.29.3.C](#)
- d** Identify surgical and non-surgical veterinary treatments and procedures to meet specific animal health care objectives. [AFNR.HS.29.3.D](#)

Analyze laws pertaining to animal systems. [AFNR.HS.29.4](#)

- a** Summarize the structure of laws governing animal systems (e.g., animal production, harvesting, international trade policies). [AFNR.HS.29.4.A](#)
- b** Analyze animal facilities to determine if government regulations and accepted safety standards have been met. [AFNR.HS.29.4.B](#)

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- c** Evaluate the impact of laws pertaining to animal agriculture (e.g., pros, cons, effect on individuals, effect on businesses) and assess the compliance of production practices with established regulations. [AFNR.HS.29.4.C](#)
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Analyze workplace safety laws and types of hazards and evaluate methods for handling and restraining large, small, and exotic animals. [AFNR.HS.29.5](#)

- a** Identify commonly used veterinary terminology, convert commonly used weights and measures, and apply the terminology to routine veterinary practices. [AFNR.HS.29.5.A](#)
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- b** Analyze the health risk of different zoonotic diseases to humans and identify prevention methods. [AFNR.HS.29.5.B](#)
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- c** Evaluate preventative measures for controlling and limiting the spread of diseases, parasites, and disorders among animals. [AFNR.HS.29.5.C](#)
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- d** Evaluate various forms of handling and restraining large, small, and exotic animals. [AFNR.HS.29.5.D](#)