Nebraska CTE

Integrated Agricultural Science (2021-)

Implement production and management plans in Agricultural, Food and Natural Resources (AFNR) systems (e.g., broiler houses, dairy farms, grain production, greenhouses, turf grass management, feed yards.) AFNR.HS.19.1

- **a** Compare and contrast methods to assure needs the needs of living organisms (e.g., nutritional, health, environmental, biosecurity) are met efficiently and economically. AFNR.HS.19.1.A
- **b** Identify pest control strategies associated with integrated pest management and the importance of determining economic threshold. AFNR.HS.19.1.B
- **c** Design structural (e.g., housing, equipment, handling, processing, storage) facilities for the major systems of agriculture that are effective and efficient. AFNR.HS.19.1.C
- **d** Implement appropriate equipment and power systems in the agricultural industry. AFNR.HS.19.1.D
- **e** Analyze practices used to maintain a safe product through production, harvest, processing, storage, and shipment to ensure products are safe for consumption. AFNR.HS.19.1.E
- **f** Compare methods used to reduce the effects of rural and/or urban production on the environment. AFNR.HS.19.1.F
- **g** Summarize the types, purposes, and characteristics of effective planning, risk management, marketing, record keeping, and documentation practices for AFNR systems. AFNR.HS.19.1.G
- **h** Interpret the economic impact of the agriculture industry to the local community, state, nation, and world. AFNR.HS.19.1.H
- **i** Assess the alignment of modern technologies used in production systems (e.g., precision agriculture, biotechnology, veterinary, housing) with USDA sustainable practices criteria. AFNR.HS.19.1.I

Develop reasoned solutions to agricultural issues, problems, and applications using data, sci tec

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policy, climate change,

- **a** Assess a variety of agricultural situations and devise ways to improve efficiency and value to production, processes, and/or procedures. AFNR.HS.19.2.A
- **b** Investigate and determine the root cause of a problem. AFNR.HS.19.2.B

sustainability in agriculture, rural infrastructure, Farm bill, food safety, farm financial stress, agricultural labor reform, world hunger) AFNR.HS.19.2	**c** Create an implementation plan, considering prioritized solutions, to act on new ideas. AFNR.HS.19.2.C
	d Consider the economic, social, community, environmental, and personal impact of solutions. AFNR.HS.19.2.D
Apply management skills to organize and guide decisions in the agricultural industry. AFNR.HS.19.3	**a** Utilize industry standards to manage physical, financial, and human resources. AFNR.HS.19.3.A
	b Identify applicable local, state, federal, and international laws and regulations. AFNR.HS.19.3.B
	c Develop business goals and purpose-guiding resource allocation and operation. AFNR.HS.19.3.C