Nebraska CTE

CASE Principles of Agricultural Science - Animal (2015)

AFNR: LifeKnowledge® and Cluster Skills Content Standards CS

1. **Premier Leadership: Acquire the skills necessary to positively influence others.** CS.01
2. **Personal Growth: Develop a skill set to enhance the positive evolution of the whole person.** CS.02
3. **Career Success: Demonstrate those qualities, attributes and skills necessary to succeed in, or further prepare for, a chosen career while effectively contributing to society.** CS.03
4. **Systems: Examine roles within teams, work units, departments, organizations, interorganizational systems, and the larger environment.** CS.04
5. **Systems: Identify how key organizational structures and processes affect organizational performance and the quality of products and services.** CS.05
6. **Examine the importance of health, safety, and environmental management systems in organizations and their importance to performance and regulatory compliance.** CS.06
7. **Safety, Health, and Environmental: Demonstrate appropriate health and safety procedures for AFNR occupations.** CS.07
8. **Technical Skills: Use tools, equipment, machinery and technology appropriate to work within areas related to AFNR.** CS.08
9. **Technical Skills: Compare and contrast issues affecting the AFNR industry.** CS.09
10. **Technical Skills: Envision emerging technology and globalization to project its influence on widespread markets.** CS.10
11. **Scientific Inquiry: Utilize scientific inquiry as an investigative method.** CS.11

AFNR: Agribusiness Sy Co

1. **Utilize economic principles to establish and manage an AFNR enterprise.** ABS.01

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	2 **Utilize appropriate management planning principles in AFNR business enterprises.** ABS.02
	3 **Utilize record keeping to accomplish AFNR business objectives while complying with laws and regulations.** ABS.03
	4 **Apply generally accepted accounting principles and skills to manage cash budgets, credit budgets and credit for AFNR businesses.** ABS.04
	5 **Assess accomplishments of goals and objectives by an AFNR business.** ABS.05
	6 **Use industry-accepted marketing principles to accomplish AFNR business objectives.** ABS.06
	7 **Create a production system plan.** ABS.07
AFNR: Animal Systems Career Pathway Content Standards AS	1 **Examine the components, historical development, global implications, and future trends of the animal systems industry.** AS.01
	2 **Classify, evaluate, select, and manage animals based on anatomical and physiological characteristics.** AS.02
	3 **Provide for the proper health care of animals.** AS.03
	4 **Apply principles of animal nutrition to ensure the proper growth, development, reproduction, and economic production of animals.** AS.04
	5 **Evaluate and select animals based on scientific principles of animal production.** AS.05
	6 **Prepare and implement animal handling procedures for the safety of animals, producers, and consumers of animal products.** AS.06
	7 **Select animal facilities and equipment that provide for the safe and efficient production, housing, and handling of animals.** AS.07
	8 **Analyze environmental factors associated with animal production.** AS.08
AFNR: Biotechnology Systems Career Pathway Content Standards BS	1 **Recognize the historical, social, cultural and potential applications of biotechnology.** BS.01
	2 **Demonstrate laboratory skills as applied to biotechnology.** BS.02
	3 **Demonstrate the application of biotechnology to Agriculture, Food, and Natural Resources (AFNR)..** BS.03
AF an	Skip to main content **xamine components of the food industry and historical development of food roducts and processing.** FPP.01

Career Pathway Content Standards FPP	2	**Apply safety principles, recommended equipment and facility management techniques to the food products and processing industry.** FPP.02
	3	**Apply principles of science to the food products and processing industry.** FPP.03
	4	**Select and process food products for storage, distribution and consumption.** FPP.04
AFNR: Natural Resources Systems Career Pathway Content Standards NRS	1	**Explain interrelationships between natural resources and humans necessary to conduct management activities in natural environments.** NRS.01
	2	**Apply scientific principles to natural resource management activities.** NRS.02
	3	**Apply knowledge of natural resources to production and processing industries.** NRS.03
	4	**Demonstrate techniques used to protect natural resources.** NRS.04
	5	**Use effective methods and venues to communicate natural resource processes to the public.** NRS.05
AFNR: Plant Systems Career Pathway Content Standards PS	1	**Apply knowledge of plant classification, plant anatomy and plant physiology to the production and management of plants.** PS.01
	2	**Prepare and implement a plant management plan that addresses the influence of environmental factors, nutrients, and soil on plant growth.** PS.02
	3	**Propagate, culture, and harvest plants.** PS.03
	4	**Employ elements of design to enhance an environment.** PS.04
AFNR: Power, Structural and Technical Systems Career Pathway Content Standards PST	1	**Use physical science principles and engineering applications with power, structural and technical systems to solve problems and improve performance.** PST.01
	2	**Design, operate and maintain mechanical equipment, structures, biological systems, land treatment, power and technology.** PST.02
	3	**Service and repair mechanical equipment and power systems.** PST.03
	4	**Plan, build and maintain agricultural structures.** PST.04
	5	**Apply technology principles in the use of agricultural technical systems.** PST.05