Common Career Technical Core Standards
Agricultural Education Curriculum Crosswalk

	Agriscience Explorations	Introduction to Agriscience	Agriscience Principles and Applications	Introduction to Horticulture	Animal Science	Communications in Agriculture	Comprehensive Agricultural Mechanics
Agribusiness Systems Career Pathway (AG-BIZ)							
1. Apply management planning principles in AFNR businesses.		X	X				
2. Use record keeping to accomplish AFNR business objectives, manage budgets, and comply with laws and regulations.	X	X	X				
3. Manage cash budgets, credit budgets and credit for an AFNR business using generally accepted accounting principles.		X	X				
4. Develop a business plan for an AFNR business.		X	X			X	
5. Use sales and marketing principles to accomplish AFNR business objectives.			X			X	
Animal Systems Career Pathway (AG-ANI)							
1. Analyze historic and current trends impacting the animal systems industry.		X			X		
2. Utilize best-practice protocols based upon animal behaviors for animal husbandry and welfare.					X		
3. Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction and/or economic production.	X		X		X		
4. Apply principles of animal reproduction to achieve desired outcomes for performance, development and/or economic production.		X			X		
5. Evaluate environmental factors affecting animal performance and implement procedures for enhancing performance and animal health.	X		X		X		
6. Classify, evaluate and select animals based on anatomical and physiological characteristics.	X	X	X		X		
7. Apply principles of effective animal health care.	X		X		X		

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Environmental Service Systems Career Pathway (AG-ENV)							
1. Use analytical procedures and instruments to manage environmental service systems.							
2. Evaluate the impact of public policies and regulations on environmental service system operations.			X				
3. Develop proposed solutions to environmental issues, problems and applications using scientific principles of meteorology, soil science, hydrology, microbiology, chemistry and ecology.			X				
4. Demonstrate the operation of environmental service systems (e.g., pollution control, water treatment, wastewater treatment, solid waste management and energy conservation).	X		X				
5. Use tools, equipment, machinery and technology common to tasks in environmental service systems.							
Food Products & Processing Systems Career Pathway (AG-FD)							
1. Develop and implement procedures to ensure safety, sanitation and quality in food product and processing facilities.	X	X	X				
2. Apply principles of nutrition, biology, microbiology, chemistry and human behavior to the development of food products.			X				
3. Select and process food products for storage, distribution and consumption.	X	X	X				
4. Explain the scope of the food industry and the historical and current developments of food products and processing.		X	X		X		
Natural Resources Systems Career Pathway (AG-NR)							
1. Plan and conduct natural resource management activities that apply logical, reasoned and scientifically based solutions to natural resource issues and goals.			X				
2. Analyze the interrelationships between natural resources and humans.	X		X				
3. Develop plans to ensure sustainable production and processing of natural resources.			X				
4. Demonstrate responsible management procedures and techniques to protect or maintain natural resources.			X				
Plant Systems Career Pathway (AG-PL)							
1. Develop and implement a crop management plan for a given production goal that accounts for environmental factors.				X			
2. Apply the principles of classification, plant anatomy and plant physiology to plant production and management.	X	X	X	X			
3. Propagate, culture and harvest plants and plant products based on current industry standards.	X			X			
4. Apply principles of design in plant systems to enhance an environment (e.g., floral, forest, landscape and farm).	X	X	X	X			

Power, Structural & Technical Systems Career Pathway (AG-PST)							
1. Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural and technical systems.		X	X				X
2. Operate and maintain AFNR mechanical equipment and power systems.	X	X	X				X
3. Service and repair AFNR mechanical equipment and power systems.		X	X				X
4. Plan, build and maintain AFNR structures.							X
5. Use control, monitoring, geospatial and other technologies in AFNR power, structural and technical systems.			X				X