



This document crosswalks the definition of global competence, as defined by the Asia Society (http://asiasociety.org/files/book-globalcompetence.pdf) to the Common Career Technical Core (CCTC), a state-led initiative to establish a set of rigorous, high-quality standards for Career Technical Education, managed by Advance CTE (https://www.careertech.org/cctc). The definition of global competence and the CCTC were developed separately by state education leaders as well as diverse groups of teachers, business and industry experts, administrators, and researchers.

* Please note, if the URL links do not work, copy and paste them into your browser.

Agrio	culture, Food, & Natural Re	sources C	areer Clust	er© (AG)			
Cluster	r Element	Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources
1	Analyze how issues, trends, technologies, and public policies impact systems in the Agriculture, Food, & Natural Resources Career Cluster™.	x	x	x		Activity for students on contemporary American Indian land issues	http://www.lessonsofourland.org/lessons/natural-resource-management-stewardship-land
2	Evaluate the nature and scope of the Agriculture, Food, & Natural Resources Career Cluster™ and the role of agriculture, food, and natural resources (AFNR) in society and the economy.	x	x	x		Have students explore global food security issues through the World Food Prize program.	http://www.worldfoodprize.org/en/youth_programs/state_youth_institutes/
3	Examine and summarize the importance of health, safety, and environmental management systems in AFNR businesses.	x					
4	Demonstrate stewardship of natural resources in AFNR activities.	x	x	x	x	Activity for students on contemporary American Indian land issues	http://www.lessonsofourland.org/lessons/natural-resource-management-stewardship-land
5	Describe career opportunities and means to achieve those opportunities in each of the Agriculture, Food, & Natural Resources Career Pathways.			x		Have students investigate job opportunities and think about the global skills required.	http://www.environmentalscience.org/careers/agriculture-and-forestry
6	Analyze the interaction among AFNR systems in the production, processing, and management of food, fiber, and fuel and the sustainable use of natural resources.	x		X			
Agrib	usiness Systems Career Pathway (A	G-BIZ)			1		
Cluster	r Element	Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources
1	Apply management planning principles in AFNR businesses.		x			Agritourism. This is becoming a growth industry in many parts of the world, including	http://sfp.ucdavis.edu/agritourism/planners/
2	Use record keeping to accomplish AFNR business objectives, manage budgets, and comply with laws and regulations.	x				in the United States, Italy, the Philippines, and Australia. How would you create a business plan for a farm or ranch stay in each of these	eq:http://www.visitmyphilippines.com/index.php?title=RulesandRegulationsGoverningAgri-tourismSites&func=all&pid=1626&tbl=1
3	Manage cash budgets, credit budgets, and credit for an AFNR business using generally accepted accounting principles.					markets? What laws and regulations exist regarding tourist participation in food production? Think about how you would	http://c.ymcdn.com/sites/www.agrifoodskills.net.au/resource/resmgr/fellowship_reports/iss_fel_report_p_porcaro_low.pdf
4	Develop a business plan for an AFNR business.	х		x		market a farm or ranch stay in each of these	





5	Use sales and marketing principles to	х		х		countries. Create a budget in each currency	
	accomplish AFNR business objectives.					for your business.	
An	imal Systems Career Pathway (AG	-ANI)			-		
Cluster	Element	Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources
1	Analyze historic and current trends impacting the animal systems industry.	х	x			Mexican Egg Crisis and bird flu: What are the impacts globally?	http://www.washingtonpost.com/world/the_americas/the-great-egg-crisis-hits-mexico/2012/09/02/0f9ae31c-f3b6-11e1-b74c-84ed55e0300b_story.html
2	Utilize best-practice protocols based upon animal behaviors for animal husbandry and welfare.	х				Mad Cow Disease: What regulations have been put into place? As outbreaks continue, what further regulations should be considered?	http://www.centerforfoodsafety.org/issues/1040/mad-cow-disease/timeline-mad-cow-disease-outbreaks#
3	Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction, and/or economic production.						
4	Apply principles of animal reproduction to achieve desired outcomes for performance, development, and/or economic production.					Sustainable animal reproduction around the world.	http://www.ncbi.nlm.nih.gov/books/NBK285723/
5	Evaluate environmental factors affecting animal performance and implement procedures for enhancing performance and animal health.	х	x			World Bacon Shortage: How to keep animals healthy when faced with a global disease.	http://www.necn.com/news/national-international/Bacon-Prices-Pork-Shortage-Mysterious-Virus-Kills-Pigs-Piglets-254418611.html
6	Classify, evaluate, and select animals based on anatomical and physiological characteristics.	х		x			
7	Apply principles of effective animal health care.	х		х			
Env	vironmental Service Systems Care	er Pathway (AG-ENV)				
	Element	Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources
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	x			Compare and contrast the environmental policies of the U.S. and China.	https://www.epa.gov/nepa; https://www.sciencedaily.com/news/earth_climate/environmental_policy/











3	Develop proposed solutions to environmental issues, problems and applications using scientific principles of meteorology, soil science, hydrology, microbiology, chemistry, and ecology.	X		x	x	Explore how the environmental issues in one region can impact the environment in other regions.	http://www.environmentalscience.org/is-it-safe; https://www.sciencedaily.com/news/earth_climate/environmental_issues/; http://www.livescience.com/environment
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.						
Fo	od Products & Processing Systems	Career Path	way (AG-FD)				
Cluster	Element	Investigate	Recognize	Communicate	Take	International Application	Resources
		the World	Perspectives	Ideas	Action		
1	Develop and implement procedures to ensure safety, sanitation, and quality in food product and processing facilities.					Compare and contrast U.S. and another country's product and processing practices.	
1	safety, sanitation, and quality in food product	the World			Action	Compare and contrast U.S. and another	http://www.denverpost.com/2013/09/09/how-america-is-exporting-its-obesity-epidemic/
1	safety, sanitation, and quality in food product and processing facilities. Apply principles of nutrition, biology, microbiology, chemistry, and human behavior	the World X	Perspectives		Action	Compare and contrast U.S. and another country's product and processing practices. Corn syrup and obesity. Consider exports to other countries: does the United States have a responsibility to consider nutrition effects of	

Na	Natural Resources Systems Career Pathway (AG-NR)										
Cluster	Element	Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources				
1	Plan and conduct natural resource management activities that apply logical, reasoned, and scientifically based solutions to natural resource issues and goals.	х	x			environmental impact.	Privatization of water in Bolivia: http://www.worldsavvy.org/wsc-resources-pd1-bolivia/ Rising Tensions Over the Nile River Basin: http://static.water.org/docs/curriculums/WaterOrg%20HighCurric15.pdf				
2	Analyze the interrelationships between natural resources and humans.	x	х	х		Examine the privatization of water in developing countries.					







-	Develop plans to ensure sustainable production and processing of natural	х	x		x		
	resources.						
4	Demonstrate responsible management					World Seed Vault	http://www.regjeringen.no/en/dep/lmd/campain/svalbard-global-seed-vault.html?id=462220
-	procedures and techniques to protect or						World Seed Vault
	maintain natural resources.						
	maintain natural resources.						
DI-	ant Systems Career Pathway (AG-P	1)	I				
		-					
luster	Element	Investigate	Recognize	Communicate	Take	International Application	Resources
		the World	Perspectives	Ideas	Action		
1	Develop and implement a crop management	х			х	Compare and contrast U.S. practice with	
	plan for a given production goal that accounts					China's on crop rotation, irrigation, and pest	
	for environmental factors.					management.	
2	Apply the principles of classification, plant	х		х			
	anatomy, and plant physiology to plant						
	production and management.						
3	Propagate, culture, and harvest plants and	х					
5	plant products based on current industry	^					
	standards.						
4	Apply principles of design in plant systems to						
4							
	enhance an environment (e.g., floral, forest,						
	landscape, and farm).						
Ро	wer, Structural, & Technical Syster	ns Career Pa	athway (AG-PS	ST)			
	wer, Structural, & Technical Syster Element	ms Career Pa <i>Investigate</i>	athway (AG-PS <i>Recognize</i>	ST) Communicate	Take	International Application	Resources
					Take Action	International Application	Resources
	Element	Investigate	Recognize	Communicate		International Application	Resources
luster	Element Apply physical science principles and	Investigate	Recognize	Communicate		International Application	Resources
luster	Element Apply physical science principles and engineering applications to solve problems	Investigate	Recognize	Communicate		International Application	Resources
luster	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power,	Investigate	Recognize	Communicate		International Application	Resources
luster 1	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems.	Investigate	Recognize	Communicate		International Application	Resources
luster	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical	Investigate	Recognize	Communicate		International Application	Resources
luster 1 2	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical equipment and power systems.	Investigate	Recognize	Communicate		International Application	Resources
luster 1	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical equipment and power systems. Service and repair AFNR mechanical	Investigate	Recognize	Communicate		International Application	Resources
luster 1 2 3	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical equipment and power systems. Service and repair AFNR mechanical equipment and power systems.	Investigate the World	Recognize	Communicate	Action		
luster 1 2	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical equipment and power systems. Service and repair AFNR mechanical	Investigate	Recognize	Communicate		Compare the resources available regionally to	
luster 1 2 3 4	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical equipment and power systems. Service and repair AFNR mechanical equipment and power systems. Plan, build, and maintain AFNR structures.	Investigate the World	Recognize	Communicate	Action	Compare the resources available regionally to plan, build, and maintain structures.	http://echonet.org/echo-news
luster 1 2 3	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical equipment and power systems. Service and repair AFNR mechanical equipment and power systems. Plan, build, and maintain AFNR structures. Use control, monitoring, geospatial, and other	Investigate the World	Recognize	Communicate	Action	Compare the resources available regionally to plan, build, and maintain structures. Compare the technologies in place in	
luster 1 2 3 4	Element Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems. Operate and maintain AFNR mechanical equipment and power systems. Service and repair AFNR mechanical equipment and power systems. Plan, build, and maintain AFNR structures.	Investigate the World	Recognize	Communicate	Action	Compare the resources available regionally to plan, build, and maintain structures.	http://echonet.org/echo-news

adoption and adaptation?





