



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.

<sup>\*</sup> Please note, if the URL links do not work, copy and paste them into your browser.

Cluster E	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™.	х	х	х		Activity for students on contemporary American Indian land issues	http://www.lessonsofourland.org/lessons/na ural-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.	х	х	х		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.	х					
4	Demonstrate stewardship of natural resources in AFNR activities.	х	х	Х	х	Activity for students on contemporary  American Indian land issues	http://www.lessonsofourland.org/lessons/na ural-resource-management-stewardship-land
5	Describe career opportunities and means to achieve those opportunities in each of the Agriculture, Food, & Natural Resources Career Pathways.			х		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.	х		х			
Agribu	usiness Systems Career Pathway (A	G-BIZ)					
Cluster Element		Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources
1	Apply management planning principles in AFNR businesses.		х			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.	х				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 markets? What laws and regulations exist regarding tourist participation in food production? Think about how you would market a farm or ranch stay in each of these countries. Create a budget in each currency for your business.	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.						http://c.ymcdn.com/sites/www.agrifoodskills. net.au/resource/resmgr/fellowship_reports/is s_fel_report_p_porcaro_low.pdf
4	Develop a business plan for an AFNR business.	х		х			
5	Use sales and marketing principles to accomplish AFNR business objectives.	Х		х			
An	l 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	х			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-b74c84ed55e0300b_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/1 040/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/NBK2857 23/
5	Evaluate environmental factors affecting animal performance and implement procedures for enhancing performance and animal health.	Х	х			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		х			
7	Apply principles of effective animal health care.	х		х			









Cluster 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.	х	х			Compare and contrast the environmental policies of the U.S. and China.	https://www.epa.gov/nepa; https://www.sciencedaily.com/news/earth_ mate/environmental_policy/
3	Develop proposed solutions to environmental issues, problems and applications using scientific principles of meteorology, soil science, hydrology, microbiology, chemistry, and ecology.	Х		х	х	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_mate/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).	х			х		
5	Use tools, equipment, machinery, and technology common to tasks in environmental service systems.						
Fo	ood Products & Processing Systems	Career Path	way (AG-FD)				
luster	Element	Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources
1	Develop and implement procedures to ensure safety, sanitation, and quality in food product and processing facilities.	х			х	Compare and contrast U.S. and another country's product and processing practices.	
2	Apply principles of nutrition, biology, microbiology, chemistry, and human behavior to the development of food products.	х	х			Corn syrup and obesity. Consider exports to other countries: does the United States have a responsibility to consider nutrition effects of its exports?	http://www.denverpost.com/2013/09/09/h w-america-is-exporting-its-obesity-epidemic
3	Select and process food products for storage, distribution, and consumption.	х		Х	х	Local and regional food systems	http://www.sustainabletable.org/254/local-regional-food-systems









4	Explain the scope of the food industry and the	X	x			EU has long required GMO labeling. Portland,	http://www.gmo-
	historical and current developments of food					OR, recently rejected GMO labeling. Explore	compass.org/eng/regulation/labelling/93.new
	products and processing.					the issues around GMO labeling and the	_labelling_laws_gm_products_eu.html;
						different opinions in different countries.	https://ballotpedia.org/Oregon_Mandatory_L
						Create an ad campaign either pro or anti GMC	abeling of GMOs Initiative, Measure 92 (2
						labeling.	014)
Na	tural Resources Systems Career Pa	thway (AG-N	NR)				
Cluster	Element	Investigate	Recognize	Communicate	Take	International Application	Resources
		the World	Perspectives	Ideas	Action		
1	Plan and conduct natural resource	х	х			Compare fisheries in Spain, Canada, China,	
	management activities that apply logical,					and the U.S. – contrast policies and	Privatization of water in Bolivia:
	reasoned, and scientifically based solutions to					environmental impact.	http://www.worldsavvy.org/wsc-resources-
	natural resource issues and goals.					·	pd1-bolivia/
2	Analyze the interrelationships between	х	х	х		Examine the privatization of water in	,
_	natural resources and humans.					developing countries.	Rising Tensions Over the Nile River Basin:
3	Develop plans to ensure sustainable	х	х		х		http://static.water.org/docs/curriculums/Wat
	production and processing of natural	_ ^	^		^		erOrg%20HighCurric15.pdf
	resources.						Crorg/0201 lightcutric15.pui
4	Demonstrate responsible management					World Seed Vault	http://www.regjeringen.no/en/dep/lmd/cam
'	procedures and techniques to protect or					Volla Seed Vadit	pain/svalbard-global-seed-
	maintain natural resources.						vault.html?id=462220
	maintain naturarresources.						World Seed Vault
							World Seed Vadit
Pla	ant Systems Career Pathway (AG-P	L)					
	Element	Investigate	Recognize	Communicate	Take	International Application	Resources
Cruster	Liement	the World	Perspectives	Ideas	Action	meeriational Application	nesources
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					
3	plant products based on current industry	_ ^					
	li i						
	standards.						









4	Apply principles of design in plant systems to enhance an environment (e.g., floral, forest, landscape, and farm).						
Po	wer, Structural, & Technical Syster	ns Career Pa	thway (AG-PS	T)			
Cluster	Element	Investigate the World	Recognize Perspectives	Communicate Ideas	Take Action	International Application	Resources
1	Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural, and technical systems.						
2	Operate and maintain AFNR mechanical equipment and power systems.						
3	Service and repair AFNR mechanical equipment and power systems.						
4	Plan, build, and maintain AFNR structures.	х			х	Compare the resources available regionally to plan, build, and maintain structures.	http://echonet.org/echo-news
5	Use control, monitoring, geospatial, and other technologies in AFNR power, structural, and technical systems.	Х				Compare the technologies in place in developing nations with those in the U.S.; what role does culture play in technology adoption and adaptation?	http://echonet.org/echo-news



