

High School Name:
Community College Name:
CTE Program of Study Name:
Date:

Agriculture Food & Natural Resource Systems

Portland Community College
 Agruculture/Landscape Technology
 12/1/2016

Skills-to-Course Matrix

2016

Instructions: 1) Enter your high school name above. 2) Enter the community college name. 3) Enter the Program of Study name. 4) Enter the date. 5) Click on Course 1, Course 2, etc. below and replace with your POS course names (or numbers). 6) Check those courses that trigger the TSA for this POS. 7) Finally, check those standards that are taught with intent and purpose, and are assessed in each course. Note: You only need to use the optional Focus Area tabs below if you are using those skill sets for multiple options in a Progam of Study or if you want to use another set

Cluster Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	CS 200	HOR 226	HOR 227	HOR 209	HOR 228	LAT 106	LAT 108	LAT 101	LAT 109	LAT 104	LAT 111	LAT 236	LAT 217	LAT 223	HOR 255
AG 1	AG01	Analyze how issues, trends, technologies, and public policies impact systems in the Agriculture, Food & Natural Resources Career ClusterTM.						X	X	X	X						X
AG 2	AG02	Evaluate the nature and scope of the Agriculture, Food & Natural Resources Career ClusterTM and the role agriculture, food, and natural resources (AFNR) play in society and the economy.	X						X	X	X				X	X	
AG 3	AG03	Examine and summarize importance of health, safety, and environmental management systems in AFNR organizations.								X		X	X				
AG 4	AG04	Demonstrate stewardship of natural resources in AFNR activities.	X							X		X					X
AG 5	AG05	Describe career opportunities and means to achieve those opportunities in each of the Agriculture, Food & Natural Resources Career Pathways.								X	X	X	X				
AG 6	AG06	Analyze the interaction among ANFR systems in the production, processing and management of food, fiber, and fuel and sustainable use of natural resources.								X							

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Agribusiness Systems Focus Area

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Animal Systems Focus Area

Skills-to-Course Matrix

2016

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Environmental Service Systems Focus Area

2016

Skills-to-Course Matrix

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Focus Area Knowledge and Skills (CTE standards)		KS Statement	CSS 200	HOR 226	HOR 227	HOR 209	HOR 228	LAT 106	LAT 108	LAT 109	LAT 104	LAT 110	LAT 111	LAT 236	LAT 217	LAT 223	HOR 255
CCTC	Code Number		TSA?														
AG-ENV 1	AGEV01	Use analytic procedures and instruments to manage environmental systems activities.															X
AG-ENV 2	AGEV02	Evaluate the impact of public policies and regulations on environmental services facility operations.															
AG-ENV 3	AGEV03	Develop proposed solutions to environmental issues, problems, and applications using scientific principles of meteorology, soil science, hydrology, microbiology, chemistry, and ecology.															
AG-ENV 4	AGEV04	Demonstrate the operation of environmental service systems (e.g., pollution control, water treatment, wastewater treatment, solid waste management, and energy conservation).															
AG-ENV 5	AGEV05	Use tools, equipment, machinery, and technology common to tasks in environmental system services.										X	X				

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Food Products and Processing Focus Area

2016

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Focus Area Knowledge and Skills (CTE standards)

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Natural Resources Focus Area

2016

Skills-to-Course Matrix

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Focus Area Knowledge and Skills (CTE standards)

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CCTC	Code Number	KS Statement	TSA?													
AG-NR 1	AGNR01	Plan and conduct natural resource management activities that apply logical, reasoned, and scientifically based solutions to natural resource issues and goals.						X		X				X	X	
AG-NR 2	AGNR02	Analyze interrelationships between natural resources and humans needed to manage natural resource systems.						X			X					
AG-NR 3	AGNR03	Develop plans to ensure responsible and sustainable production and processing of natural resources.								X						
AG-NR 4	AGNR04	Demonstrate responsible control and management procedures and techniques to protect or maintain natural resources.						X	X	X						

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Plant Systems Focus Area

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Focus Area Knowledge and Skills (CTE standards)

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AG-PL 1	AGPL01	Develop and implement a crop management plan for a given production goal that accounts for environmental factors.	x		x		x		x	x							
AG-PL 2	AGPL02	Apply the principles of classification, plant anatomy, and plant physiology to plant production and management.	x	x	x		x	x		x							
AG-PL 3	AGPL03	Propagate, culture, and harvest plants and plant products based on current industry standards.						x		x							
AG-PL 4	AGPL04	Apply principles of design in plant systems to enhance an environment (e.g., floral, forest, landscape, and farm).						x	x	x							

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Area

2016

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CCTC	Code Number	KS Statement	TSA?													
AG-PST 1	AGPT01	Apply physical science principles and engineering applications related to mechanical equipment, structures, and biological systems to solve problems and improve performance in AFNR power, structural, and technical systems.							X							
AG-PST 2	AGPT02	Operate and maintain mechanical equipment related to AFNR power, structural, and technical systems.							X		X	X				
AG-PST 3	AGPT03	Service and repair mechanical equipment and power systems used in AFNR power, structural, and technical systems.											X		X	
AG-PST 4	AGPT04	Plan, build, and maintain AFNR structures.														
AG-PST 5	AGPT05	Use control, monitoring, geospatial, and other technologies in AFNR power, structural, and technical systems.							X							

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Forestry and Forest Products Focus Area

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Focus Area Knowledge and Skills (CTE standards)