High School Name:		**Hillsboro High School**
Community College Name:		**Portland Community College**
CTE Program of Study Name:		**Agriculture Science and Technology**
Date:		**2/1/2017**

Natural Resources Focus Area

Skills-to-Course Matrix

Focus Area Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	Intro to Hort TSA?	Horticulture 1 TSA?	Horticulture 2 TSA?	Floral Design TSA?	Construction Tech M TSA?	Discovering Natural Resources 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.						x
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.						x
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).						x
AG-ENV 5	AGEV05	Use tools, equipment, machinery, and technology common to tasks in environmental system services.						x

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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
AG-NR 2	AGNR02	Analyze interrelationships between natural resources and humans needed to manage natural resource systems.						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

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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			
AG-PL 2	AGPL02	Apply the principles of classification, plant anatomy, and plant physiology to plant production and management.	x	x	x	x		
AG-PL 3	AGPL03	Propagate, culture, and harvest plants and plant products based on current industry standards.	x	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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	MNWL01	Perform safety, health, inspection, and repair processes related to welding and thermal cutting.					x	
	MNWL02	Perform entry level welding processes using a variety of welding technologies including shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten welding (GTAW).					x	
	MNWL03	Perform thermal cutting process using a variety technologies including manual oxyfuel gas cutting (OFC), mechanized oxyfuel gas cutting (track burner), plasma arc cutting (PAC), and air carbon arc cutting (CAC-A).					x	
	MNWL04	Interpret drawing and welding symbols.						
	MNWL05	Perform advanced level welding processes using a variety of welding technologies including shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten welding (GTAW).					x	
	MNWL06	Perform operations related to shop equipment used in welding, layout, and part preparation.					x	
	MNWL07	Understand basic welding metallurgy.					x	