Community College Name: Portland Community College
CTE Program of Study Name: Agruculture/Landscape Technology

Date: 12/1/2016

Forestry and Forest Products Focus Area

2016

Skills-to-Course Matrix

<u>Fc</u>	ocus Area	Knowledge and Skills (CTE standards)	c55.200	40R 226	HOR 221	W1236	HOR 228	la 1206	LAT 208	W1207	W1309	IAT 202
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
		Describe the ecological concepts and principles;										
		investigate and explain the relationships between these										1
AG-FFP 1	AGFP01	principles and AGFPest development.										
		Illustrate Oregon's diverse AGFPests including history,										İ
AG-FFP 2	AGFP02	cultural uses, AGFPest types, policies, and industry.									х	
		Explain the human/natural resources relationships when										1
AG-FFP 3	AGFP03	implementing AGFPest management activities.									х	
		Demonstrate skills essential AGFPleadership and										1
AG-FFP 4	AGFP04	citizenship responsibilities.										
		Demonstrate skills in career research, planning, and										1
AG-FFP 5	AGFP05	preparation.										
		Document and describe AGFPest production practices										1
AG-FFP 6	AGFP06	and timber processing procedures.									х	
		Summarize and explain applications of appropriate										1
AG-FFP 7	AGFP07	AGFPest health practices.									х	
		Identify multi_use principles to AGFPests and										
		associated lands (to include wild life, fish, recreation,										
AG-FFP 8	AGFP08	water, energy, air, carbon and ect).									х	
		Apply cartographic (map) skills to AGFPest										1
AG-FFP 9		management activities.										
AG-FFP 10	AGFP10	Apply AGFPest mensuration techniques.									х	
		Prepare a business plan using accepted business										1 7
		management principles used in the production,										1
AG-FFP 1	AGFP11	processing, marketing and transportation of AGFPest										

Community College Name: Portland Community College

CTE Program of Study Name: Agruculture/Landscape Technology

Date: 12/1/2016

Agriculture Food & Natural Resource Systems
Cluster

2016

Skills-to-Course Matrix

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

	Cluste	er Knowledge and Skills (CTE standards)	65 ²⁰⁰	HOR 226	HOR 221	JAT 236	HOR 228	18T 206	JAT 208	lat jos	LAT 209	1AT 202
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
AG 1	AG01	Analyze how issues, trends, technologies, and public policies impact systems in the Agriculture, Food & Natural Resources Career ClusterTM.						x	x	Х	х	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	
AG 3	AG03	Examine and summarize importance of health, safety, and environmental management systems in AFNR organizations.								х		х
AG 4	AG04	Demonstrate stewardship of natural resources in AFNR activities.	х						х			х
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
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		

Community College Name: Portland Community College

CTE Program of Study Name: Agruculture/Landscape Technology

Date: 12/1/2016

Agribusiness Systems Focus Area

2016

Skills-to-Course Matrix

<u>F</u>	ocus Area	Knowledge and Skills (CTE standards)	c5200	HOR 226	HOR 221	JAT 236	HOR 228	JAT 206	LAT 108	W. 101	LAT 109	LAT 202
CCTC	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
AG-BIZ 1	1 405-04	Apply management planning principles in AFNR business enterprises.										
AG-BIZ 2	l	Use record keeping to accomplish AFNR business objectives, manage budgets, and comply with laws and regulations.				х						
AG-BIZ 3		Manage cash budgets, credit budgets, and credit for an AFNR business using generally accepted accounting principles.				X						
AG-BIZ 4	1	Develop a business plan for an AFNR enterprise or business unit.										
AG-BIZ 5	AGBZ05	Use sales and marketing principles common to agribusiness systems to accomplish AFNR business										

Community College Name: Portland Community College
CTE Program of Study Name: Agruculture/Landscape Technology

Date: 12/1/2016

Animal Systems Focus Area

2016

Skills-to-Course Matrix

<u>F</u>	ocus Area	Knowledge and Skills (CTE standards)	c5200	HOR 226	HORZZÍ	JAT 236	HOK 228	JAT 206	W1208	LAT 201	14,109	lat 202
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
AG-ANI 1	AGAN01	Analyze historic and current trends impacting the animal systems industry.										
AG-ANI 2	AGAN02	AGAN02										
AG-ANI 3	AGAN03	Design and provide proper animal nutrition given desired outcomes for performance, development, reproduction, and/or economic production.										
AG-ANI 4	AGAN04	Apply principles of animal reproduction given desired outcomes for performance, development, and/or economic production.										
AG-ANI 5	AGAN05	Evaluate environmental factors affecting animal performance and implement procedures for enhancing performance and animal health.										
AG-ANI 6	AGAN06	Classify, evaluate and select animals based on anatomical and physiological characteristics.										
AG-ANI 7	AGAN07	Apply principles of effective animal health care.										

Community College Name: Portland Community College

CTE Program of Study Name: Agruculture/Landscape Technology

Date: 12/1/2016

Environmental Service Systems Focus Area

Skills-to-Course Matrix

<u>Instructions</u>: 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

2016

Fo	ocus Area k	(nowledge and Skills (CTE standards)	c55.200	HOR 226	HOR 227	N 236	HOR 228	127,06	1AT 208	la 101	LAT 109	W1302
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
AG-ENV 1	$\Delta(\exists \vdash V(1))$	Use analytic procedures and instruments to manage environmental systems activities.				х						
AG-ENV 2	$A(\neg \vdash V) \cup Z$	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.									х	
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		Use tools, equipment, machinery, and technology common to tasks in environmental system services.									х	x

Community College Name: Portland Community College

CTE Program of Study Name: Agruculture/Landscape Technology

nte: 12/1/2016

Food Products and Processing Focus Area

2016

Skills-to-Course Matrix

<u> </u>	ocus Area	Knowledge and Skills (CTE standards)	US 200	HORZZÓ	40R 221	W1236	40R 228	LAT 206	la 108	la 101	W108	WIDI
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
AG-FD 1		Develop and implement procedures to ensure safety, sanitation, and quality in food product and processing facilities.										
AG-FD 2		Apply principles of nutrition, biology, microbiology, chemistry, and human behavior to development of food										
AG-FD 3	AGFD03	Select and process food products for storage, distribution, and consumption.										
AG-FD 4	1 A(-FI)()4	Explain the scope of the food industry and the historical and current developments of food products and										

Community College Name: Portland Community College

CTE Program of Study Name: Agruculture/Landscape Technology

Date: 12/1/2016

Natural Resources Focus Area

2016

Skills-to-Course Matrix

Fo	ocus Area	Knowledge and Skills (CTE standards)	C55.700	HOR 226	HOR 221	M 236	HOR 228	LAT 206	LAT 108	la 101	LAT 109	1AT 202
CCTC	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
		Plan and conduct natural resource management										
AG-NR 1	AGNR01	activities that apply logical, reasoned, and scientifically										i
		based solutions to natural resource issues and goals.						Χ		X	Χ	İ
AG-NR 2	AGNR02	Analyze interrelationships between natural resources										
AG-INN 2	AGINKUZ	and humans needed to manage natural resource						Χ			Χ	l
AG-NR 3	AGNR03	Develop plans to ensure responsible and sustainable										
AG-INN 3	AGINNOS	production and processing of natural resources.									Χ	İ
		Demonstrate responsible control and management										
AG-NR 4	AGNR04	procedures and techniques to protect or maintain natural										İ
		resources.						Х	Χ		Χ	1 1

Community College Name: Portland Community College

CTE Program of Study Name: Agruculture/Landscape Technology

Date: 12/1/2016

Plant Systems Focus Area

2016

Skills-to-Course Matrix

Focus Area Knowledge and Skills (CTE standards)		c5200	40R 226	HOR 221	JA 1236	HOR 228	121,06	LAT 208	14707	IN 109	W1702	
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
AG-PL 1	AGPL01	Develop and implement a crop management plan for a given production goal that accounts for environmental	х		х		х		x	х		
AG-PL 2	1 //(-DIII/	Apply the principles of classification, plant anatomy, and plant physiology to plant production and management.	х	х	х		х	х		х		
AG-PL 3	1 //(-DIII4	Propagate, culture, and harvest plants and plant products based on current industry standards.						х		х		
AG-PL 4		Apply principles of design in plant systems to enhance						v	v	v		

Community College Name: Portland Community College
CTE Program of Study Name: Agruculture/Landscape Technology

ate: 12/1/2016

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Area

2016

Skills-to-Course Matrix

	Focus Ar	ea Knowledge and Skills (CTE standards)	c5.200	HOR 226	HOR 221	LAT 236	HOR 228	JAT 206	LAT 208	lat 101	LAT 109	LAT 202
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?		TSA?	TSA?
AG-PST	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	1 /(-0111/	Operate and maintain mechanical equipment related to AFNR power, structural, and technical systems.							х		х	Х
AG-PST		Service and repair mechanical equipment and power systems used in AFNR power, structural, and technical systems.										
AG-PST 4	AGPT04	Plan, build, and maintain AFNR structures.										
AG-PST 5		Use control, monitoring, geospatial, and other technologies in AFNR power, structural, and technical systems.							х			