

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

**Banks High School**  
**Portland Community College**  
**Agriculture**  
**2/24/2017**

## Agriculture Food & Natural Resource Systems Cluster

### 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 Program of Study or if you want to use another set of industry validated standards.

#### Cluster Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	Basic Constr	Basic Constr	Advanced Ba	Welding I	Welding II	Metal Fabric	Horticulture	Natural Resu	Animal Scien	Agricultur	Supervised A
AG 1	AG01	Analyze how issues, trends, technologies, and public policies impact systems in the Agriculture, Food & Natural Resources Career ClusterTM.							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		
AG 3	AG03	Examine and summarize importance of health, safety, and environmental management systems in AFNR organizations.	X	X	X	X	X	X	X	X	X	X	X
AG 4	AG04	Demonstrate stewardship of natural resources in AFNR activities.							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		
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	X	X		

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## Agribusiness Systems Focus Area

2016

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## **Focus Area Knowledge and Skills (CTE standards)**

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## Animal Systems Focus Area

**2016**

### **Skills-to-Course Matrix**

#### Focus Area Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	Basic Constr	Basic Constr	Advanced Br	Welding I	Welding II	Metall Fabric	Horticulture	Natural Resu	Animal Scie	Agricultural	Supervised
								TSA					
AG-ANI 1	AGAN01	Analyze historic and current trends impacting the animal systems industry.									X		
AG-ANI 2	AGAN02	AGAN02								X			
AG-ANI 3	AGAN03	Design and provide proper animal nutrition given desired outcomes for performance, development, reproduction, and/or economic production.								X			
AG-ANI 4	AGAN04	Apply principles of animal reproduction given desired outcomes for performance, development, and/or economic production.								X			
AG-ANI 5	AGAN05	Evaluate environmental factors affecting animal performance and implement procedures for enhancing performance and animal health.								X			
AG-ANI 6	AGAN06	Classify, evaluate and select animals based on anatomical and physiological characteristics.								X			
AG-ANI 7	AGAN07	Apply principles of effective animal health care.								X			

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## Environmental Service Systems Focus Area

**2016**

### **Skills-to-Course Matrix**

#### Focus Area Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	Basic Constr.	Basic Constr.	Advanced B	Welding I	Welding II	TSA	Metal Fabric.	Horticulture	Natural Res.	Animal Scie,	Agricultural	Supervised ,
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	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	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).												
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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CCTC	Code Number	KS Statement	Basic Constr.	Basic Constr.	Advanced B	Welding I	Welding II	Metal Fabric.	Horticulture	Natural Res.	Animal Scie.	Agricultural	Supervised
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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## Plant Systems Focus Area

2016

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## Focus Area Knowledge and Skills (CTE standards)

<b><u>Focus Area</u></b> Knowledge and Skills (CTE standards)		Basic Constr	Basic Constr	Advanced B	Welding I	Welding II	Metal Fabr	Horticulture	Natural Res	Animal Scie	Agricultur	Supervised
CCTC	Code Number	KS Statement						TSA				
AG-PL 1	AGPL01	Develop and implement a crop management plan for a given production goal that accounts for environmental factors.							X			
AG-PL 2	AGPL02	Apply the principles of classification, plant anatomy, and plant physiology to plant production and management.							X			
AG-PL 3	AGPL03	Propagate, culture, and harvest plants and plant products based on current industry standards.							X			
AG-PL 4	AGPL04	Apply principles of design in plant systems to enhance an environment (e.g., floral, forest, landscape, and farm).							X			

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## **Power, Structure and Technology Systems Focus Area**

### **Skills-to-Course Matrix**

#### **Focus Area Knowledge and Skills (CTE standards)**

CCTC	Code Number	KS Statement
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.
AG-PST 2	AGPT02	Operate and maintain mechanical equipment related to AFNR power, structural, and technical systems.
AG-PST 3	AGPT03	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	AGPT05	Use control, monitoring, geospatial, and other technologies in AFNR power, structural, and technical systems.

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	Basic Constr	Basic Constr	Advanced	Welding I	Welding II	Metal Fabric	Horticulture
X	X	X	X	X	X		
X	X	X	X	X	X		
X	X	X	X	X	X		
X	X	X	X	X	X		

Natural Res-	Animal Scie,	Agricultural	Supervised ,
		X	
		X	
		X	
		X	

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## Forestry and Forest Products Focus Area

### Skills-to-Course Matrix

#### Focus Area Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement
AG-FFP 1	AGFP01	Describe the ecological concepts and principles; investigate and explain the relationships between these principles and AGFPest development.
AG-FFP 2	AGFP02	Illustrate Oregon's diverse AGFPests including history, cultural uses, AGFPest types, policies, and industry.
AG-FFP 3	AGFP03	Explain the human/natural resources relationships when implementing AGFPest management activities.
AG-FFP 4	AGFP04	Demonstrate skills essential AGFPleadership and citizenship responsibilities.
AG-FFP 5	AGFP05	Demonstrate skills in career research, planning, and preparation.
AG-FFP 6	AGFP06	Document and describe AGFPest production practices and timber processing procedures.
AG-FFP 7	AGFP07	Summarize and explain applications of appropriate AGFPest health practices.
AG-FFP 8	AGFP08	Identify multi_use principles to AGFPests and associated lands (to include wild life, fish, recreation, water, energy, air, carbon and ect).
AG-FFP 9	AGFP09	Apply cartographic (map) skills to AGFPest management activities.
AG-FFP 10	AGFP10	Apply AGFPest mensuration techniques.
AG-FFP 11	AGFP11	Prepare a business plan using accepted business management principles used in the production, processing, marketing and transportation of AGFPest project / products.

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Horticulture	Natural Res.	Animal Scie.	Agricultural	Supervised
X				
X				
X				
X				
X				
X				
X				
X				
X				