Forest Grove High School
Portland Community College
Agriculture
6/30/2012

## Agriculture Food & Natural Resource Systems Cluster

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

Instructions: 1) Click on Sample High School above and 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 in each course. (You only need to use the optional Focus Area tabs if you are using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.)

	Cluster Knowledge and Skills (CTE standards)	NG Occupatio	rsa? <sub>Introto</sub> Hort.'	
Code Number	KS Statement			
ster Statement (	Production Description			
AG 01.01	Acquire the specific academic knowledge and skills necessary to pursue a full range of career and post-secondary opportunities within agricultural business and industries.	☑	☑	V
AG 02.01	Use oral and written communication skills in creating, expressing and interpreting agricultural information and ideas including technical terminology.		V	V
AG 02.02	Communicate agricultural technical information clearly and efficiently using templates, standard formats and technical instruments and tools.	☑	✓	V
AG 03.01	Solve agriculture problems using critical thinking skills (e.g., analyze, synthesize and evaluate, independently and in teams).		<b>☑</b>	✓
AG 03.02	Access relevant resources to identify public policies, issues and regulations impacting agricultural management.  Use information technology tools to access, manage, integrate, create, and		☑	
AG 04.01	communicate agricultural information.  Identify agriculture related organizations, in the agriculture management system and		☑	$\overline{\mathbf{Z}}$
AG 05.01	their roles.  Identify how agriculture provide the foundation for life through the application of the		☑	☑
AG 05.02	Law of the Harvest (reap what you sow).  Understand the importance of agricultural related health, safety and environmental		☑	☑
AG 06.01	management systems and their significance to organizational performance and regulatory compliance.		☑	✓
AG 06.02	Identify health goals, emergency procedures for safety and first-aid for agricultural workplaces and occupations.		<b>☑</b>	✓
AG 06.03	Understand appropriate health and safety emergency procedures for agricultural occupations.		<b>☑</b> 	<b>✓</b>
AG 07.01	Use leadership skills in collaborating with others to accomplish agriculture related organizational goals and objectives.  Know and understand the importance of professional ethics and legal responsibilities		<b>☑</b> —	<b>✓</b>
AG 08.01	in agricultural careers.  Compare and contrast issues that affect technical fields in an Oregon agriculture		☑	☑
AG 08.03	industry (e.g., biotechnology, employment, safety, environmental quality, animal welfare).		☑	☑
AG 09.01	Know and understand the importance of employability skills for agricultural careers.		✓	V
AG 10.01	Demonstrate knowledge and skills related to critical technological systems (e.g., design, operation and maintenance for use in agriculture businesses and industries).		☑	V
AG 10.02	Use tools, equipment, machinery and technology to work in areas related to agriculture.			
AG 11.01	Use economic principles to manage agriculture resources and produce products.		V	V
AG 11.02	Forecast the influence of emerging technology on widespread agricultural markets.		✓	V
AGS10.04	Forecast the influence of emerging technology on widespread agricultural markets.		✓	V

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rsa <sup>?</sup> √ rsto to Horticult  — —	TSA? Animal Science	TSA? Leadership Skills	GA <sup>3</sup>	igh? 2	42kz.	45A
rsa? <sub>Introto Horticu</sub>	TSA? Arinal science	TSA? Leadership Skill	TSA?	TSA? □ Metals2		
☑	<b>v</b>	☑	☑	☑		
☑	Ø	v	v	V		
✓	✓	✓	abla	✓		
abla						
✓	✓	✓	✓	✓		
☑	☑	☑				
☑	Ø	v				
✓	✓	✓				
✓	V	V				
☑	Ø	v				
V	V	abla				
abla	V					
✓	✓					
✓	✓	V	V			
☑	☑					
		✓	V			
abla	$\square$					
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☑	☑					

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## **Agriculture Cluster**

	Skills-to-Course Matrix	name. 3) Ent POS course r that are taug	ter the Program of Stunames (or numbers). Go the shift the shift intent and pure shift the shift	dy name. 4) Enter the 5) Check those courses	date. 5) Click on that trigger the	School Name above. 2) E Course 1, Course 2, etc. TSA for this POS. 7) Fina	below and replace	with your
	Cluster Knowledge and Skills (CTE standards)	Agricultural Lead	TSR³	□ Introduction to In				
Code Number	KS Statement  Acquire the specific academic knowledge and skills necessary to pursue a full range of career and post-secondary opportunities within agricultural business and			□				
AG 02.01	industries.  Use oral and written communication skills in creating, expressing and interpreting agricultural information and ideas including technical terminology.	Ø						
AG 02.02	Communicate agricultural technical information clearly and efficiently using templates, standard formats and technical instruments and tools.							
AG 03.01	Solve agriculture problems using critical thinking skills (e.g., analyze, synthesize and evaluate, independently and in teams).		<b>☑</b>	V				
AG 03.02	Access relevant resources to identify public policies, issues and regulations impacting agricultural management.	☑		☑				
AG 04.01	Use information technology tools to access, manage, integrate, create, and communicate agricultural information.			☑				
AG 05.01	Identify agriculture related organizations, in the agriculture management system and their roles.	v						
AG 05.02	Identify how agriculture provide the foundation for life through the application of the Law of the Harvest (reap what you sow).	☑						
AG 06.01	Understand the importance of agricultural related health, safety and environmental management systems and their significance to organizational performance and regulatory compliance.		Ø					
AG 06.02	Identify health goals, emergency procedures for safety and first-aid for agricultural workplaces and occupations.		☑	☑				
AG 06.03	Understand appropriate health and safety emergency procedures for agricultural occupations.		☑	☑				
AG 07.01	Use leadership skills in collaborating with others to accomplish agriculture related organizational goals and objectives.			☑				
AG 08.01	Know and understand the importance of professional ethics and legal responsibilities in agricultural careers.			Ø				
AG 08.03	Compare and contrast issues that affect technical fields in an Oregon agriculture industry (e.g., biotechnology, employment, safety, environmental quality, animal welfare).			<b>J</b>				
AG 09.01	Know and understand the importance of employability skills for agricultural careers.	☑						
AG 10.01	Demonstrate knowledge and skills related to critical technological systems (e.g., design, operation and maintenance for use in agriculture businesses and industries).							
AG 10.02	Use tools, equipment, machinery and technology to work in areas related to agriculture.		☑	☑				
AG 11.01	Use economic principles to manage agriculture resources and produce products.							
AG 11.02	Forecast the influence of emerging technology on widespread agricultural markets.			☑				
AGS10.04	Forecast the influence of emerging technology on widespread agricultural markets.							
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POS Course to Standards Crosswalk



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### **Agribusiness Systems Focus Area**

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

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A Statement Co	Production Description	J. J. L.	TSA JEHRALO	uction			
ABM 01.	Utilize economic principles to establish and manage an Agriculture enterprise.	Agicultural e	gaders TSA Agricultural Occur	√ Introduction to			
ABM 02.	Utilize appropriate management planning principles in Agriculture business enterprises.		V	abla			
ABM 03.	Utilize record keeping to accomplish Agriculture business objectives while complying with laws and regulations.	V	V				
ABM 04.	Apply generally accepted accounting principles and skills to manage cash budgets, credit budgets and credit for Agriculture businesses.		V	abla			
ABM 05.	Assess accomplishment of goals and objectives by an Agriculture business.	V	V				
ABM 06.	Use industry-accepted marketing principles to accomplish Agriculture business objectives.	V	V				
ABM 07.	Create a production system plan.		V	abla			

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### **Animal Systems Focus Area**

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A Statement Co	Production Description		15A <sup>2</sup>	15R <sup>2</sup>	15k3	15k3	45A?	15A?
	Examine the components, historical development, global implications and future trends of the animal systems industry.	Course 1	Course 2	rsa?	TSA? □ COUSEA	tsh <sup>2</sup> course s	Contract [	
ANS 02.	Classify, evaluate, select and manage animals based on anatomical and physiological characteristics.							
ANS 03.	Provide for the proper health care of animals.							
	Apply principles of animal nutrition to ensure the proper growth, development, reproduction and economic production of animals.							
ANS 05.	Evaluate and select animals based on scientific principles of animal production.							
	Outline handling procedures for the safety of animals, producers and consumers of animal products.							
	Select animal facilities and equipment that provide for the safe and efficient production, housing and handling of animals.							
	Analyze environmental factors associated with animal production.							
ANS 09.	Identify contentious issues in animal science.							

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## **Plant Systems Focus Area**

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Statement Coa	Draduction Description	toHU	to Ho			
	Apply knowledge of plant classification, plant anatomy and plant physiology to the production and management of plants.	Introduction to No.	Introduction to Ho			
ant 02	Prepare a plant management plan that addresses the influence of environmental factors, nutrients and soil on plant growth.		☑			
ant 03.	Propagate, culture and harvest plants.		V			
ant 04.	Employ elements of design to enhance an environment.		V			
	Apply federal, state and local laws / regulations that relate to specific plant production enterprises.		V			
ant 06.	Horticulture standards and skills specific to Oregon's horticulture industry. Key words (hort, nursery, landscape, ornamental, turfgrass, turf, garden, botanical, greenhouse, green industry, Xeriscape)	v	☑			
ant 07	Floriculture standards and skills specific to the floriculture industry. Key words (floral, floriculture, interiorscape, greenhouse, design,)	Ø	☑			

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# Power, Structure & Technical Systems Focus Area

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				The contract of the contract o			
A Statement Co	Production Description						
PST 01.	Use physical science principles and engineering applications with power, structural and technical systems to solve problems and improve performance.	wetals?	√ netals 2	<b></b> ✓		<b></b> ✓	
PST 02.	Plan, operate, maintain and troubleshoot mechanical equipment, structures, biological systems, land treatment, power and technology.	Ø	v				
PST 03.	Service and repair mechanical equipment and power systems.		v				
PST 04.	Plan, build and maintain agricultural structures.						
PST 05.	Apply technology principles in the use of agricultural technical systems.		<b></b> ✓				