

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)

| | | | Basic Constr | Basic Constr | Advanced Ba | Welding I | Welding II | Metal Fabric | Horticulture | Natural Reso | Animal Scien | Agricultural | Supervised A. |
|------|-------------|---|--------------|--------------|-------------|-----------|------------|--------------|--------------|--------------|--------------|--------------|---------------|
| CCTC | Code Number | KS Statement | | | | | | TSA | | | | | |
| 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 | | |
| 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 | | |

| | |
|-----------------------------------|----------------------------|
| High School Name: | Banks High School |
| Community College Name: | Portland Community College |
| CTE Program of Study Name: | Agricultrure |
| Date: | 2/24/2017 |

Agribusiness Systems Focus Area

2016

Skills-to-Course Matrix

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Focus Area Knowledge and Skills (CTE standards)

[illegible]

Banks High School
Portland Community College
Agricluture
2/24/2017

2016

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| | Basic Const | Basic Const | Advanced B | Welding I | Welding II | Metal Fabr | Horticulture | Natural Res | Animal Scie | Agricultural | Supervised P |
|------|-------------|-------------|------------|-----------|------------|------------|--------------|-------------|-------------|--------------|--------------|
| 100% | 98% | 97% | 96% | 95% | 94% | 93% | 92% | 91% | 90% | 89% | 88% |

| CCTC | Code Number | KS Statement | | | | | 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

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Focus Area Knowledge and Skills (CTE standards)

| CCTC | Code Number | KS Statement | Basic Const | Basic Const | Advanced B | Welding I | Welding II | Metal Fabr | 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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| Program | Duration (Months) |
|------------------------------------|-------------------|
| Basic Construction | 12 |
| Basic Carpentry | 12 |
| Advanced Carpentry | 12 |
| Welding I | 12 |
| Welding II | 12 |
| Metal Fabrication | 12 |
| Horticulture | 12 |
| Natural Resources | 12 |
| Animal Science | 12 |
| Agriculture | 12 |
| Supervised Agricultural Experience | 12 |

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Natural Resources Focus Area

2016

Skills-to-Course Matrix

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Focus Area Knowledge and Skills (CTE standards)

| CCTC | Code Number | KS Statement | Basic Const | Basic Const | Advanced B | Welding I | Welding II | Metal Fabr | Horticulture | Natural Res | Animal Scie | Agricultural | Supervised |
|---------|-------------|--|-------------|-------------|------------|-----------|------------|------------|--------------|-------------|-------------|--------------|------------|
| | | | | | | | 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 | | | |
| 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)

| CCTC | Code Number | KS Statement | Basic Constr | Basic Constr | Advanced B | Welding I | Welding II | Metal Fabr | Horticulture | Natural Res | Animal Scie | Agricultural | Supervised |
|---------|-------------|--|--------------|--------------|------------|-----------|------------|------------|--------------|-------------|-------------|--------------|------------|
| | | | | | | | | 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 Construction | | Basic Construction | | Advanced Building | Welding I | Welding II | Metal Fabrication | Horticulture |
|--------------------|---|--------------------|---|-------------------|-----------|------------|-------------------|--------------|
| | | | | | | TSA | | |
| X | X | X | X | X | X | X | X | |
| 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 | |
| | | | |

High School Name:
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Date:

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. |

2016

Basic Constr

Basic Constr

Advanced B

Welding I

Welding II

Metal Fabric

[illegible]

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