

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

# Portland Community College

## Engineering

12/1/2016

## Engineering Technology 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 Program of Study or if you

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

High School Name:  
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# Portland Community College

## Engineering

12/1/2016

## Chemical Focus Area

## Skills-to-Course Matrix

2016

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

**High School Name:**  
**Community College Name:** **Portland Community College**  
**CTE Program of Study Name:** **Engineering**  
**Date:** **12/1/2016**

# Civil & Infrastructure Systems Focus Area

2016

## Skills-to-Course Matrix

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

High School Name:  
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Portland Community College  
Engineering  
12/1/2016

## Electrical Systems Focus Area

**2016**

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

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

CCTC	Code Number	KS Statement	EET 101	EET 111	EET 121	EET 112	EET 122	EET 113	EET 123
			TSA?						
	ENES01	Understand and apply electrical theory and laws.			X			X	
	ENES02	Demonstrate knowledge and application of transistors.	X	X		X	X	X	X
	ENES03	Understand and apply circuit concepts and analysis techniques.			X	X	X		X
	ENES04	Demonstrate knowledge of circuit design and fabrication.	X	X		X	X		
	ENES05	Understand and apply digital concepts and circuitry.		X		X	X		X
	ENES06	Demonstrate knowledge of power sources and power supplies.	X	X		X	X	X	
	ENES07	Demonstrate knowledge of communication systems.	X		X		X		
	ENES08	Understand and perform skills for system integration and amplification.		X					X
	ENES09	Communicate using symbols, measurements, conventions, icons, and graphic images.		X	X	X	X	X	X

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## Engineering

12/1/2016

## Manufacturing Systems Focus Area

## Skills-to-Course Matrix

2016

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## Focus Area Knowledge and Skills (CTE standards)

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# Portland Community College

## Engineering

12/1/2016

## Mechanical Systems Focus Area

## Skills-to-Course Matrix

2016

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