

Community College Name:

CTE Program of Study:

Date:

**Portland Community College
Engineering
June-11**

**Skill Set Crosswalk for FOCUS
DesignPreConstruction**

	HS-CAD 1	HS-Ind Arts 1	HS-Eng. Design	HS-Exploring Eng	CC-BCT 102 Residential Printreading	CC-BCT 103 Residential Materials and Methods	CC-ARCH 110	CC-ARCH 126	CC_ARCH 132	CC-ARCH 136	CC-ARCH 101	CC-ARCH 111
COPA02.01 - Use communication skills and strategies to work effectively with potential clients	X	X	X	X							X	
COPA03.01 - Employ basic methods of data collection and analysis to provide information for projects.		X		X					X		X	X
COPA05.01 - Integrate structural, environmental, safety, building envelopes and building service systems to design and construct buildings and structures.				X	X				X		X	X
COPA05.02 - Review traditional project phases and various roles within them to plan for and implement phases within a project							X	X		X	X	X
COPA05.03 - Apply the suitable practices of environmental impact to enhance project acceptance and quality.											X	X
COPA08.01 - Apply objective construction guidelines for the accommodation of people with varying physical abilities to meet accessibility requirements.											X	
COPA08.02 - Appreciate the diversity of needs, values and social patterns in project design to appropriately meet client needs.				X			X	X		X	X	X
COPA10.01 - Develop technical drawings drafted by hand and computer-generated plans to design structures.	X		X				X	X		X	X	X
COPA10.02 - Employ appropriate representational media to communicate concepts and design.				X							X	
COPA10.04 - Apply basic organizational, spatial, structural and constructional principles to the design of interior and exterior space so that design plans are effective.	X						X					X
COPA10.05 - Read technical drawings and documents to plan a project.	X	X	X		X				X			
COPA10.07 - Create technical sketches using technical sketching techniques and procedures.	X	X	X				X	X		X	X	X
COPA10.08 - Use a CADD system and procedures.	X		X					X		X	X	X
COPA10.09 - Detail projection views/components.	X	X	X				X	X		X	X	X
COPA10.10 - Explore architectural drafting and design concepts and problems.							X	X		X	X	X
COPA10.11 - Demonstrate drafting and design concepts as related to architectural design using CADD systems.								X		X	X	X
COPA10.12 - Create drawings of structural sections and details using CADD systems.												X
COPA10.13 - Create pictorial drawings and models.	X	X	X				X	X		X	X	X