

# 2019

## Skills-to-Course Matrix

### Architectural Drafting/Construction

Aloha High School  
Portland Community College  
19-Mar

#### Architecture & Construction Cluster

**Instructions:** 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course. Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry focusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.

			Architecture Design 1A	Architecture Design 1B	Architecture Design 2A	Architecture Design 2B	Construction	Drafting 1	Drafting 2	Woodworking 1	Woodworking 2
Cluster Knowledge and Skills (CTE standards)			A5411	A5412	A5421	A5422	A590X	A531X	A532X	A551X	A552X
			05192	05192	05192	05192	17002	21102	21102	17006	17006
			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CCTC*	Code Number	KS Statement	N	N	N	N	Y	N	N	N	N
AC 1	AC01	Use vocabulary, symbols, and formulas commonly used in design and construction.	X	X	X	X	X			X	X
AC 2	AC02	Use architecture and construction skills to create and manage a project.	X	X	X	X	X			X	X
AC 3	AC03	Comply with regulations and applicable codes to establish and manage a legal and safe workplace/jobsite.	X	X	X	X	X			X	X
AC 4	AC04	Understand the nature and scope of the Architecture &Construction Career Cluster™ and the role architecture and construction play in society and the economy.		X		X	X				
AC 5	AC05	Understand the roles and responsibilities among trades and professions, including labor/management relationships.	X	X	X	X	X				
AC 6	AC06	Read, interpret, and use technical drawings, documents, and specifications to plan a project.	X	X	X	X	X		X	X	X
AC 7	AC07	Evaluate a wide range of career pathway opportunities for success in architecture and construction careers.	X	X	X	X	X		X		X

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## Architectural Drafting/Construction

## Aloha High School

# Portland Community College

19-Mar

## Carpentry Focus Area

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[illegible]

# 2019

## Skills-to-Course Matrix

## Architectural Drafting/Construction

# Aloha High School

# Portland Community College

19-Mar

## Construction Management Focus Area

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<p>post-secondary). 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are <u>taught with intent and purpose</u>, and are <u>assessed</u> in each course. Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry focus;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.</p>			Architecture Design 1A		Architecture Design 1B		Architecture Design 2A		Architecture Design 2B		Construction		Drafting 1		Drafting 2		Woodworking 1		Woodworking 2	
			A5411		A5412		A5421		A5422		A590X		A531X		A532X		A551X		A552X	
			05192		05192		05192		05192		17002		21102		21102		17006		17006	
			0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5	
			N		N		N		N		Y		N		N		N		N	
<b>Cluster Knowledge and Skills (CTE standards)</b>																				
CCTC*	Code Number	KS Statement																		
AC-CST 1	ACCS01	Understand contractual relationships with all parties involved in the building process to ensure successful build of a project.																		
AC-CST 2	ACCS02	Understand approval procedures to ensure effective flow of information in the construction process.																		
AC-CST 3	ACCS03	Understand and implement testing and inspection procedures to ensure successful completion of a construction project.																		
AC-CST 4	ACCS04	Understand the purpose of scheduling as it relates to the successful completion of a construction project.																		
AC-CST 5	ACCS05	Understand and apply practices and procedures required to maintain jobsite safety.																		
AC-CST 6	ACCS06	Manage relationships with internal and external parties to successfully complete construction projects.																		
AC-CST 7	ACCS07	Compare and contrast the building systems and components for a given project.																		
AC-CST 8	ACCS08	Demonstrate the construction crafts required for each phase of a given project.																		
AC-CST 9	ACCS09	Safely use and maintain appropriate tools, machinery, equipment, and resources to accomplish construction project goals.																		

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Skills-to-Course Matrix

Architectural Drafting/Construction

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Portland Community College

19-Mar

Design/Pre-construction Focus Area

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			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Cluster Knowledge and Skills (CTE standards)			N	N	N	N	Y	N	N	N	N
CCTC*	Code Number	KS Statement									
AC-DES 1	ACDP01	Justify design solutions through the use of research documentation and analysis of data.									
AC-DES 2	ACDP02	Use effective communication skills and strategies (listening, speaking, reading, writing, and graphic communications) to work with clients and colleagues.	X	X	X	X					
AC-DES 3	ACDP03	Understand the integral systems that impact the design of buildings and structures.	X	X	X	X					
AC-DES 4	ACDP04	Apply building codes, laws, and rules in the design and construction of projects.	X	X	X	X					
AC-DES 5	ACDP05	Identify the diversity of needs, values, and social patterns in project design, including accessibility standards, to appropriately meet client needs.		X		X					
AC-DES 6	ACDP06	Apply the techniques and skills of modern drafting, design, engineering, and construction to projects.	X	X	X	X			X		
AC-DES 7	ACDP07	Employ appropriate representational media to communicate concepts and design.									
AC-DES 8	ACDP08	Apply principles, conventions, standards, applications, and restrictions pertaining to the selection and use of construction materials, components, and assemblies for project design.	X	X	X	X	X		X		

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19-Mar

## Low Voltage Electricity Focus Area

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# 2019

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## Architectural Drafting/Construction

# Aloha High School

**Portland Community College**

19-Mar

## Maintenance & Operations Focus Area

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19-Mar

## Masonry Focus Area

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## Architectural Drafting/Construction

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# Portland Community College

19-Mar

## Residential Electric Focus Area

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# 2019

## Skills-to-Course Matrix

## Architectural Drafting/Construction

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19-Mar

## Sheet Metal/HVAC Focus Area

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