

Portland Community College Jan-19

Architecture & Construction Cluster

<u>Instructions</u>: 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 TS. purpos include	A for this POS e, and are <u>ass</u> d for those PO e options in a	Enter number of credits awarded. 9) Identify those courses that trigger (5. 10) Finally, check those standards that are taught with intent and sessed in each course. Note: The optional Focus Area tabs below are DSs that have a very specific industry fociusare using those skill sets for Progam of Study or if you want to use another set of industry validated	Woodworking 1	Moodworking2	OND 1	CNO 2	Construction 2	Construction 2		
			A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912		
			[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]		
	<u>C</u>	luster Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1		
CCTC*	Code Number	KS Statement	N	N	N	N	Υ	N		
AC 1	AC01	Use vocabulary, symbols, and formulas commonly used in design and construction.	Υ	Y	Υ	Y	Υ	Υ		
AC 2	AC02	Use architecture and construction skills to create and manage a project.	Υ	Υ	Υ	Υ	Υ	Υ		
AC 3	AC03	Comply with regulations and applicable codes to establish and manage a legal and safe workplace/jobsite.	Υ	Υ	Υ	Υ	Υ	Υ		
AC 4	AC04	Understand the nature and scope of the Architecture &Construction Career Cluster TM and the role architecture and construction play in society and the economy.					Y	Υ		
AC 5	AC05	Understand the roles and responsibilities among trades and professions, including labor/management relationships.	Υ	Υ	Υ	Υ	Υ	Υ		
AC 6	AC06	Read, interpret, and use technical drawings, documents, and specifications to plan a project.	Υ	Υ	Υ	Υ	Υ	Υ		
AC 7	AC07	Evaluate a wide range of career pathway opportunities for success in architecture and construction careers.	Υ	Υ	Υ	Y	Υ	Y		



Mountainside High School Portland Community College Jan-19

Architecture & Construction Cluster

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(second	ary only). 8) Eı	nter 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</u>								
purpose	, and are <u>asse</u>	ssed in each course. Note: The optional Focus Area tabs below are	ing	ingl			\n^*	/2		1
included	I for those POS	Ss that have a very specific industry fociusare using those skill sets for	MONKI	Jorki			uction	uction		4
multiple	options in a P	rogam of Study or if you want to use another set of industry validated	Mooding	godin	\2\frac{1}{2}	\2\gamma^2	Constructiv	nstru		1
standard	ds.		Mc	Mc	CNO .	CAD	\ Q.	\ Q.		1
			A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912		1
			[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]		1
	<u>Clu</u>	ster Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1		
сстс*	Code Number	KS Statement	N	N	N	N	Υ	N		1
	ACCR01	Identify building materials, fasteners, adhesives, and their uses.	у	у	у	У	у	у		
	ACCR02	Read plans and elevations.	у	у	у	У	у	У		
	ACCR03	Identify and install floor systems.					у	у		1
	ACCR04	Indentify and install wall and ceiling framing.					у	у		
	ACCR05	Identify and install roof framing and roofing.					у	у		
	ACCR06	Install concrete reinforcing materials and forms.					у	у		1
	ACCR07	Install windows and exterior doors.					у	У		
	ACCR08	Complete basic stair layout and construction.					У	У		
	ACCR09	Conduct distance measurement and leveling for site layout.					у	У		
	ACCR10	Describe properties and testing methods for concrete.					У	у		<u>, </u>
	ACCR11	Prepare foundations and flatwork.					У	у		<u>, </u>
	ACCR12	Handle and place concrete.					У	у		<u>, </u>
	ACCR13	Install exterior finishing.					у	у		1
	ACCR14	Install thermal and moisture protection.					у	у		
	ACCR16	Install interior doors.					у	у		
	ACCR17	Install interior trim.					у	у		
	ACCR18	Install cabinets.					У	у		



Building Construction
Mountainside High School
Portland Community College Jan-19

Architecture & Construction Cluster

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		A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912			
		[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]			
	Cluster Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1			
CCTC*	Code Number KS Statement	N	N	N	N	Υ	N			
AC-CST 1	process to ensure successful build of a project.									
AC-CST 2	2 ACCS02 Understand approval procedures to ensure effective flow of information in the construction process.									
AC-CST 3	3 ACCS03 Understand and implement testing and inspection procedures to ensure successful completion of a construction project.	lı.								
AC-CST 4	4 ACCS04 Understand the purpose of scheduling as it relates to the successful completion of a construction project.	F								
AC-CST 5	5 ACCS05 Understand and apply practices and procedures required to maintain jobsite safety.	у	у	У	У	У	у			
AC-CST 6	6 ACCS06 Manage relationships with internal and external parties to successfully complete construction projects.	у	у	У	У	У	у			
AC-CST 7	7 ACCS07 Compare and contrast the building systems and components for a given project.					У	у			
AC-CST 8	8 ACCS08 Demonstrate the construction crafts required for each phase of a given project.					У	у			
AC-CST 9	9 ACCS09 Safely use and maintain appropriate tools, machinery, equipment, and resources	у	у	У	У	У	У			



Mountainside High School
Portland Community College Jan-19

Architecture & Construction Cluster

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(secondary of TSA for this and are assethose POSs	only). 8) Enter number of credits awarded. 9) Identify those courses that trigger to s POS. 10) Finally, check those standards that are taught with intent and purpose, sessed in each course. Note: The optional Focus Area tabs below are included for s that have a very specific industry fociusare using those skill sets for multiple a Progam of Study or if you want to use another set of industry validated standards	r yorking 1	Moodworking 2	CAD 1	CAD2	Construction 2	Construction 2		
		A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912		
		[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]		
	Cluster Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1		
сстс*	Code Number KS Statement	N	N	N	N	Υ	N		,
AC-DES 1	data:	f y	у	У	у	у	у		ı
AC-DES 2	Use effective communication skills and strategies (listening, speaking, reading, writing, and graphic communications) to work with clients and colleagues.	у	у	у	у	у	у		
AC-DES 3		S				у	у		1
AC-DES 4						у	у		
AC-DES 5	discounting statistical delice stopping interest and inte	ng							
AC-DES 6	contained projecto.			у	у				
AC-DES 7		у	у	у	у	у	у		
AC-DES 8	Apply principles, conventions, standards, applications, and restrictions pertaining to the selection and use of construction materials, components, and assemblies for project design	o y	y	y	у	у	у		

7(114 Skills-to-Course Matrix

Building Construction

Mountainside High School Portland Community College Jan-19

Architecture & Construction Cluster

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luded	for those POS options in a Pr	ssed in each course. Note: The optional Focus Area tabs below are s that have a very specific industry fociusare using those skill sets for ogam of Study or if you want to use another set of industry validated	Moodworking	Moodworking	CND 1	CND 2	Construction 1	Construction 2		
			A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912		
			[NCES Code]	[NCES Code]						
	Clu	ster Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1		
CTC*	Code Number	KS Statement	N	N	N	N	Υ	N		
	ACLV01	Install pathways and spaces for low-voltage electrical systems.								
	ACLV02	Prepare and install low-voltage cabling.								
	ACLV03	Understand semiconductors and integrated circuits.								
	ACLV04	Use test equipment.								
	ACLV05	Understand power quality and grounding.								
	ACLV06	Understand switching devices and timers.								
	ACLV07	Prepare wire and cable terminations.								
	ACLV08	Understand codes and standards related to low-voltage electrical.								
	ACLV09	Use computer applications in low-voltage electrical systems.								
	ACLV10	Conduct maintenance and repair on low-voltage electrical systems.								
	ACLV11	Install rack systems for electronic equipment.								



Mountainside High School Portland Community College Jan-19

Architecture & Construction Cluster

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sets for mu	nultiple options in a Progam of Study or if you want to use another set of industry standards.	Moodin	Moodin	CND 1	CADI	Constitu	Constitu		
		A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912		
		[NCES Code]	[NCES Code]						
	Cluster Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1		
сстс*	Code Number KS Statement	N	N	N	N	Υ	N		
AC-MO 1	COMO01 Recognize and employ universal construction signs and symbols to function safely in the workplace.								
AC-MO 2	COMO02 Use troubleshooting procedures when solving a maintenance problem to maintain buildings and structures.								
AC-MO 3	COMO03 Apply construction skills when repairing, restoring, or renovating existing structures.								
AC-MO 4	COMO04 Determine work required to repair or renovate an existing building or structure.								
AC-MO 5	COMO05 Plan and practice preventative maintenance activities to service existing structures.								
AC-MO 6	COMO06 Maintain and inspect building systems to achieve safe and efficient operation of facilities.							 	

7019 **Skills-to-Course Matrix**

Building Construction

Mountainside High School Portland Community College Jan-19

ACMS13

Architecture & Construction Cluster

<u>Instructions</u>: 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 numbe Identify those courses that trigger the TSA for this POS. 10) standards that are taught with intent and purpose, and are as Note: The optional Focus Area tabs below are included for the very specific industry fociusare using those skill sets for mult of Study or if you want to use another set of industry validate

Repair and restore masonry structures.

trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a usare using those skill sets for multiple options in a Progam	Moodworking 1	Moodworking 2	cho's	cho2	Construction 2	Construction 2					
	A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912					
	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]					
(nowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1					
KS Statement	N	N	N	N	Υ	N					
Understand safe use of equipment in elevated masonry work.											
Perform appropriate construction inspection and quality control.											
Understand the safe use of equipment and materials in high-rise construction work.											
Use appropriate masonry tools and equipment.											
Understand the components of mortar and how to mix those components properly.											
Understand masonry units and installation techniques.											
Apply masonry techniques to residential construction.											
Understand and use appropriate techniques for reinforced masonry.											
Understand how metal work is used in masonry.											
Apply advanced masonry laying techniques.											
Understand the relationships between masonry construction											
Apply appropriate masonry construction techniques to a variety of											
	e (secondary only). 8) Enter number of credits awarded. 9) trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a usare using those skill sets for multiple options in a Progamuse another set of industry validated standards. (Inowledge and Skills (CTE standards) KS Statement Understand safe use of equipment in elevated masonry work. Perform appropriate construction inspection and quality control. Understand the safe use of equipment and materials in high-rise construction work. Use appropriate masonry tools and equipment. Understand the components of mortar and how to mix those components properly. Understand masonry units and installation techniques. Apply masonry techniques to residential construction. Understand how metal work is used in masonry. Apply advanced masonry laying techniques.	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a usare using those skill sets for multiple options in a Progamuse another set of industry validated standards. A551X [NCES Code] Cnowledge and Skills (CTE standards) O.5 KS Statement Understand safe use of equipment in elevated masonry work. Perform appropriate construction inspection and quality control. Understand the safe use of equipment and materials in high-rise construction work. Use appropriate masonry tools and equipment. Understand the components of mortar and how to mix those components properly. Understand masonry units and installation techniques. Apply masonry techniques to residential construction. Understand how metal work is used in masonry. Apply advanced masonry laying techniques. Understand the relationships between masonry construction	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a usare using those skill sets for multiple options in a Progam use another set of industry validated standards. A551X A552X [NCES Code] [NCES Code] [NCES Code] (INCES Code] (INC	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a usare using those skill sets for multiple options in a Progam use another set of industry validated standards. A551X	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a usare using those skill sets for multiple options in a Progamuse another set of industry validated standards. A551X	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a usare using those skill sets for multiple options in a Progamuse another set of industry validated standards. A551X A552X A521X A522X A5901 & A5901 & A5902 [NCES Code] [NCE	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a sare using those skill sets for multiple options in a Progamuse another set of industry validated standards. A551X	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a sare using those skill sets for multiple options in a Progam use another set of industry validated standards. A551X A552X A521X A522X A5901 & A5902 A5911 & A5912 [INCES Code] [INCES COD	trigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a user using those skill sets for multiple options in a Program use another set of industry validated standards. A551X A552X A521X A522X A5901 & A5902 A5911 & A5902 A5911 & A5912 [NCES Code] [NCES C	Lunger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a sare using those skill sets for multiple optons in a Progam use another set of industry validated standards. A551X A552X A521X A522X A521X A522X A5911 & A5912 Consulted and the components of more program use another set of industry validated standards. A551X A552X A521X A522X A521X A522X A5911 & A5912 (INCES Code) INCES CODE)	(secondary only), â) Enter number of credits awarded. 9) tritrigger the TSA for this POS. 10) Finally, check those with intent and purpose, and are assessed in each course. Area tabs below are included for those POSs that have a asser using those skill sets for multiple options in a Program use another set of industry validated standards. Apply masonry beforingues to residential construction. Apply masonry bechniques. Apply masonry leichniques. Apply masonry construction with masonry. Apply advanced masonry light gletchiques. Apply masonry construction Apply masonry construction



Mountainside High School Portland Community College Jan-19

CCTC* Code Number

ACPL01

ACPL02

ACPL03

ACPL04

ACPL05 ACPL06

ACPL07

ACPL08

ACPL09

ACPL10

Architecture & Construction Cluster

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Cluster Knowledge and Skills (CTE standards)

Prepare and install building drainage systems.

Perform general plumbing practices.

Layout and install water supply lines.

Conduct plumbing service and repair.

Prepare and install vents.

Prepare and install traps.

Join pipes and fittings.

Install plumbing fixtures.

Install hot water systems.

Perform safety inspections.

KS Statement

very	Woodworking 1	Moodworking2	CND 1	CAD 2	construction 2	Construction 2				
	A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912	 	_		
	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]				
	0.5	0.5	0.5	0.5	1	1				
	N	N	N	N	Y	N				
•										
	·								·	

7019 **Skills-to-Course Matrix**

Building Construction

Mountainside High School Portland Community College Jan-19

ACRE28

Architecture & Construction Cluster

Complete high voltage terminations and splices.

name. 3 Course of secondary NCES of Identify to standard Note: The very specific standard specific spe	B) Enter the condainty and first year ode for the courses the courses that are taughte optional Focuscific industry for	he Program of Study name above. 2) Enter your high school numity college name. 4) Enter the date. 5) Click on the cell for e 2 Name, etc., and replace with your POS course names-r of post-secondary. 6) Enter school course numbers. 7) Enter se (secondary only). 8) Enter number of credits awarded. 9) nat trigger the TSA for this POS. 10) Finally, check those at with intent and purpose, and are assessed in each course. Its Area tabs below are included for those POSs that have a ciusare using those skill sets for multiple options in a Progam of use another set of industry validated standards.	ionine 1	Woodworking 2 A552X	CRO 1 A521X	CRD 2 A522X	Construction 1 A5901 & A5902	Construction 2 A5911 & A5912	1		
			[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]			
	Cluste	r Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1			
сстс*	Code Number	KS Statement	N	N	N	N	Υ	N			
	ACRE01	Apply electrical theory to circuits including concepts of alternating current.									
	ACRE02	Use electrical test equipment.									+
	ACRE03	Understand how to use the National Electrical Code®									
	ACRE04	Prepare electrical conduit for installation.									
	ACRE05	Indentify and Install fasteners and anchors.									
	ACRE06	Install raceways, boxes, cable trays, and fittings.									
	ACRE07	Install Conductors									
	ACRE08	Read and understand electrical blueprints.									
	ACRE09	Install wiring in switches and enclosures in commercial settings.									
	ACRE10	Install wiring in residential settings.									
	ACRE11	Understand the principles of grounding.									
	ACRE12	Install boxes and fittings.									
	ACRE13	Prepare conductor terminations and splices.									
	ACRE14	Install electrical services.									
	ACRE15	Understand circuit breakers and fuses.									
	ACRE16	Understand contactors and relays.									
	ACRE17	Install electric lighting									
	ACRE18	Calculate loads for branch and feeder circuits.									
	ACRE19	Select appropriate conductors.									
	ACRE20	Determine appropriate overcurrent protection.									
	ACRE21	Understand requirements for raceway, box, and fitting fill.									
	ACRE22	Understand requirements for wiring devices.									
	ACRE23	Understand and inspect distribution equipment.									
	ACRE24	Understand the purpose and function of lamps, ballasts, and their									
	ACRE25	Use appropriate wiring methods for hazardous locations.									
	ACRE26	Identify practical lighting requirements.									
	ACRE27	Identify and install heat tracing and freeze protection systems.									



Mountainside High School Portland Community College Jan-19

CCTC* Code Number

ACSM01 ACSM02

ACSM03

ACSM04

ACSM06

ACSM07

ACSM08 ACSM09

ACSM10

ACSM11

ACSM12 ACSM13

Architecture & Construction Cluster

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Cluster Knowledge and Skills (CTE standards)

Design heating and cooling systems.

ught wood ocus Ausare	<u>vith intent and purpose</u> , and are <u>assessed</u> in each course. Area tabs below are included for those POSs that have a very using those skill sets for multiple options in a Progam of another set of industry validated standards.	Moodworking 1	Woodworking 2	CND 1	CADZ	Construction 2	Construction 2		
		A551X	A552X	A521X	A522X	A5901 & A5902	A5911 & A5912		
		[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]		
<u>ster</u> k	(nowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	1	1		1
er	KS Statement	N	N	N	N	Υ	N		
Und HVA	erstand the safe use of equipment and tools used in sheet metal and C.								
Per	form proper piping practices.								
	form soldering and brazing operations.								
HVA									į
Und	erstand the fundamental concepts related to heating systems.								
Und	erstand the fundamental concepts related to air distribution systems.								1
Rea	d and interpret blueprints related to HVAC and sheetmetal projects.								
	erstand fundamental sheet metal planning and layout.								
	erstand principles of sheet metal fabrication.								
	ntain heating and cooling systems.								
Und	erstand the relationship between indoor air quality and HVAC.								



Mountainside High School Portland Community College Jan-19

CCTC* Code Number

ACGR02

ACGR03

ACGR04

ACGR05

ACGR06

ACGR07

ACGR08

ACGR09

Architecture & Construction Cluster

<u>Instructions</u>: 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) standards that are taught with intent and purpose, and are a Note: The optional Focus Area tabs below are included for the specific industry fociusare using those skill sets for multiple or if you want to use another set of industry validated standa

Understand how industry accepted practices associated with design,

e courses to tauge tional Focustry focius	hat trigger the TSA for this POS. 10) Finally, check those
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