

2019

Skills-to-Course Matrix

Computer Technology

Century High School

Portland Community College

10/17/2019

Information & Communications Technology 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 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.

[illegible]

2019

Skills-to-Course Matrix

Computer Technology

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Portland Community College

10/17/2019

Information Support Services Focus Area

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 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.

[illegible]

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Network Systems Focus Area

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 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.

		1015211/1015212	101521x	1015221/101522P	101522x	1015701/1015702	1020111/1020112	102013x	1020121/ 1020122	102012x	102050x	102051x	171021x	210091x	1015231	032120X	102014x	1020141/1020142
		10152	10152	10152	10152	10157	10201	10201	10201	10201	10205	10205	17106	21009	10152	3212	10201	10201
CCTC*	Code Number	KS Statement																
		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IT-NET 1	ITNW01	Analyze customer or organizational network system needs and requirements.														X		
IT-NET 2	ITNW02	Analyze wired and wireless network systems to determine if they meet specifications (e.g., IEEE, power, security).																
IT-NET 3	ITNW03	Design a network system using technologies, tools and standards.																
IT-NET 4	ITNW04	Perform network system installation and configuration.																
IT-NET 5	ITNW05	Perform network administration, monitoring and support to maintain a										X				X	X	X

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Computer Technology

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Portland Community College

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Programming & Software Development Focus Area

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 the box for the Focus Area that best describes the 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.

		Programming 1	Programming 1	Programming 2	Programming 2	AP Computer Science	Web Design 1	Web Design 1	Applied Web Design	Applied Web Design	Computer Game Design 1	Game Design 2	Electronic Technology 1	Robotics 1	Programming 3	Research & Development	Web Design 2	Web Design 2
		1015211	1015212	1015221	101522P	1015701/1015702	1020111/1020112	102011x	1020121	1020122	102050x	102051x	171021x	210091x	1015231	032120X	102014x	1020141/1020142
		10152	10152	10152	10152	10157	10201	10201	10201	10201	10205	10205	17106	21009	10152	3212	10201	10201
		0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CTC*	Code Number	KS Statement																
IT-PRG 1	ITPG01	Analyze customer software needs and requirements.																
IT-PRG 2	ICXE02	Demonstrate the use of industry standard strategies and project planning to meet customer specifications.																
IT-PRG 03	ITPG03	Analyze system and software requirements to ensure maximum operating efficiency.																
IT-PRG 4	ITPG04	Demonstrate the effective use of software development tools to develop software applications.																
IT-PRG 05	ITPG05	Apply an appropriate software development process to design a software application.																
IT-PRG 06	ITPG06	Program a computer application using the appropriate programming language.																
IT-PRG 7	ITPG07	Demonstrate software testing procedures to ensure quality products.																
IT-PRG 8	ITPG08	Perform quality assurance tasks as part of the software development cycle.																
IT-PRG 9	ITPG09	Perform software maintenance and customer support functions.																
IT-PRG 10	ITPG10	Design, create and maintain a database.																

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Web & Digital Communications Focus Area

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 Program of Study or if you want to use another set of industry validated standards.

			Programming 1	Programming 1	Programming 2	Programming 2	AP Computer Science	AP Computer Science	Web Design 1	Web Design 1	Applied Web Design	Applied Web Design	Computer Game Design 1	Game Design 2	Electronic Technology 1	Robotics 1	Programming 3	Research & Development	Web Design 2	Web Design 2
			1015211/1015212	101521x	1015221/101522P	101522x	1015701	1015702	1020111	1020112	1020121	1020122	102050x	102051x	171021x	210091x	1015231	032120X	102014x	020141/1020142
Focus Area Knowledge and Skills (CTE standards)			10152	10152	10152	10152	10157	10157	10201	10201	10201	10201	10205	10205	17106	21009	10152	3212	10201	10201
CCTC*	Code Number	KS Statement	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
IT-WD 1	ICXH01	Analyze customer requirements to design and develop a Web or digital communication product.									X	X						X		
IT-WD 2	ICXH02	Apply the design and development process to produce user-focused Web and digital communications solutions.							X	X	X	X					X	X	X	X
IT-WD 3	ICXH03	Write product specifications that define the scope of work aligned to customer requirements.									X	X					X	X		
IT - WD 4	ICXH04	Demonstrate the effective use of tools for digital communication production, development and project management.	X	x	X	x	X	x	X	X	X	X	X	X	X	X	X	X	X	X
IT - WD 5	ICXH05	Develop, administer and maintain Web applications.							X	X	X	X						X	X	X
IT-WD 6	ICXH06	Design, create and publish a digital communication product based on customer needs.									X	X						X		
IT-WD 7	ICXH07	Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.																X		
IT-WD 8	ICXH08	Implement quality assurance processes to deliver quality digital communication products and services.																X		
IT-WD 9	ICXH09	Perform maintenance and customer support functions for digital communication products.																		
IT-WD 10	ICXH10	Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications.			X	x	X	x	X	X	X	X	X	X			X	X	X	X