

Skills-to-Course Matrix

**Southridge High School
Portland Community College
Mar-19**

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

Information Technology

Southridge High School

Portland Community College

Mar-19

Information Support Services Focus Area

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[illegible]

2019

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Information Technology

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Network Systems Focus Area

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<p>NCES code for the course (secondary only). 8) Enter number or 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.</p> <p>Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry focus area 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>			Computer Hardware	Web Design 1	Web Design 2	Game Design 1 (Intro)	Game Design 2	Java Programming 1	Java Programming 2	Robotics 1	Robotics 2	[Course 10 Name]
			A423X	A431X	A432X	A445X	A446X	A459X	A463X	A562X	A563X	[Course Number]
			10251	10201	10201	10160	10160	10155	10155	21009	21009	[NCES Code]
			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	[# of Credits]
			N	N	N	N	N	N	Y	N	N	[TSA--Y or N?]
Focus Area Knowledge and Skills (CTE standards)												
CCTC*	Code Number	KS Statement										
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).	X									
IT-NET 3	ITNW03	Design a network system using technologies, tools and standards.	X									
IT-NET 4	ITNW04	Perform network system installation and configuration.	X									
IT-NET 5	ITNW05	Perform network administration, monitoring and support to maintain a network system.	X									

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CCTC*	Code Number	KS Statement	N	N	N	N	N	N	Y	N	N									
IT-PRG 1	ITPG01	Analyze customer software needs and requirements.			X			X	X											
IT-PRG 2	ICXE02	Demonstrate the use of industry standard strategies and project planning to meet customer specifications.			X			X	X											
IT-PRG 03	ITPG03	Analyze system and software requirements to ensure maximum operating efficiency.			X			X	X											
IT-PRG 4	ITPG04	Demonstrate the effective use of software development tools to develop software applications.		X	X	X	X	X	X	X	X									
IT-PRG 05	ITPG05	Apply an appropriate software development process to design a software application.			X		X	X	X	X	X									
IT-PRG 06	ITPG06	Program a computer application using the appropriate programming language.		X	X	X	X	X	X	X	X									
IT-PRG 7	ITPG07	Demonstrate software testing procedures to ensure quality products.			X	X	X	X	X	X	X									
IT-PRG 8	ITPG08	Perform quality assurance tasks as part of the software development cycle.						X	X											
IT-PRG 9	ITPG09	Perform software maintenance and customer support functions.							X											
IT-PRG 10	ITPG10	Design, create and maintain a database.							X											

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Web & Digital Communications Focus Area

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			N	N	N	N	N	N	Y	N	N	[TSA--Y or N?]
CCTC*	Code Number	KS Statement										
IT-WD 1	ICXHi01	Analyze customer requirements to design and develop a Web or digital communication product.		X	X							
IT-WD 2	ICXHi02	Apply the design and development process to produce user-focused Web and digital communications solutions.		X	X							
IT-WD 3	ICXHi03	Write product specifications that define the scope of work aligned to customer requirements.			X							
IT - WD 4	ICXH04	Demonstrate the effective use of tools for digital communication production, development and project management.		X	X							
IT - WD 5	ICXHi05	Develop, administer and maintain Web applications.			X							
IT-WD 6	ICXHi06	Design, create and publish a digital communication product based on customer needs		X	X							
IT-WD 7	ICXHi07	Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.		X	X							
IT-WD 8	ICXHi08	Implement quality assurance processes to deliver quality digital communication products and services										
IT-WD 9	ICXHi09	Perform maintenance and customer support functions for digital communication products.										
IT-WD 10	ICXHi10	Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications.		X	X							