

2019

Skills-to-Course Matrix

Computer Science

St. Helens High School
Portland Community College
Mar-19

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 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 using those skill sets for multiple options in a Program of Study or if you want to use another set of industry validated standards.

			Intro to Computer Science	Computer Science A	AP Computer Science A	[Course 4 Name]	[Course 5 Name]	[Course 6 Name]	[Course 7 Name]	[Course 8 Name]	[Course 9 Name]	[Course 10 Name]
			100121	10156	10157	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]
			10011	10156	10157	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]
			0.5	0.5	1	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
CCTC*	Code Number	KS Statement	N	N	Y	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or 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.										
IT-PRG 03	ITPG03	Analyze system and software requirements to ensure maximum operating efficiency.		x	x							
IT-PRG 4	ITPG04	Demonstrate the effective use of software development tools to develop software applications.	x	x	x							
IT-PRG 05	ITPG05	Apply an appropriate software development process to design a software application.	x	x	x							
IT-PRG 06	ITPG06	Program a computer application using the appropriate programming language.	x	x	x							
IT-PRG 7	ITPG07	Demonstrate software testing procedures to ensure quality products.	x	x	x							
IT-PRG 8	ITPG08	Perform quality assurance tasks as part of the software development cycle.			x							
IT-PRG 9	ITPG09	Perform software maintenance and customer support functions.										
IT-PRG 10	ITPG10	Design, create and maintain a database.		x	x							

