

High School Name:  
Community College Name:  
CTE Program of Study Name:  
Date:

Mountainside High School  
Portland Community College  
Computer Information Systems  
6/1/2017

2016

## Programming & Software Development Focus Area

### Skills-to-Course Matrix

**Instructions:** 1) Enter your high school name above. 2) Enter the community college name. 3) Enter the Program of Study name. 4) Enter the date. 5) Click on Course 1, Course 2, etc. below and replace with your POS course names (or numbers). 6) Check those courses that trigger the TSA for this POS. 7) Finally, check those standards that are taught with intent and purpose, and are assessed in each course.

#### Focus Area Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	TSA? No	TSA? YES	TSA? Yes	TSA?	TSA?	TSA?
IT-PRG 1	ITPG01	Analyze customer software needs and requirements.			TBD	TBD		
IT-PRG 2	ICXE02	Demonstrate the use of industry standard strategies and project planning to meet customer specifications.			TBD	TBD		
IT-PRG 03	ITPG03	Analyze system and software requirements to ensure maximum operating efficiency.	X	X	TBD	TBD		
IT-PRG 4	ITPG04	Demonstrate the effective use of software development tools to develop software applications.	X	X	TBD	TBD		
IT-PRG 05	ITPG05	Apply an appropriate software development process to design a software application.			TBD	TBD		
IT-PRG 06	ITPG06	Program a computer application using the appropriate programming language.			TBD	TBD		
IT-PRG 7	ITPG07	Demonstrate software testing procedures to ensure quality products.	X	X	TBD	TBD		
IT-PRG 8	ITPG08	Perform quality assurance tasks as part of the software development cycle.	X	X	TBD	TBD		
IT-PRG 9	ITPG09	Perform software maintenance and customer support functions.	X	X	TBD	TBD		
IT-PRG 10	ITPG10	Design, create and maintain a database.			TBD	TBD		

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## Web & Digital Communications Focus Area

2016

### Skills-to-Course Matrix

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#### Focus Area Knowledge and Skills (CTE standards)

CCTC	Code Number	KS Statement	TSA?	TSA? Yes	TSA Yes	TSA?	TSA?	TSA?
IT-WD 1	ICXHi01	Analyze customer requirements to design and develop a Web or digital communication product.			X			
IT-WD 2	ICXHi02	Apply the design and development process to produce user-focused Web and digital communications solutions.			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			
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			
IT-WD 7	ICXHi07	Evaluate the functionality of a digital communication product using industry accepted techniques and metrics.			X			
IT-WD 8	ICXHi08	Implement quality assurance processes to deliver quality digital communication products and services			X			
IT-WD 9	ICXHi09	Perform maintenance and customer support functions for digital communication products.			X			
IT-WD 10	ICXHi10	Comply with intellectual property laws, copyright laws and ethical practices when creating Web/digital communications.			X			