

2019
Skills-to-Course Matrix

Computer Technology

Tigard High School
Portland Community College
9-Oct-19

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

			CS 161: Computer Science	CS 162A: Programming in Linux	CS 162B: Advanced Programming in C	IT 1: IT Technician	IT 2: Network Administration	IT 3: Network Security	IT 4: Server Administration	IT 5: Windows Operating Systems	IT 6: Database Management	IT 7: Mobile Devices	Web Design
Cluster Knowledge and Skills (CTE standards)			101562	10152	10154	10251.1 & 10251.2	10101	10108	10102	10111	10053	10206	10201
			10003	10152	10154	10251	10101	10108	10102	10111	10053	10206	10201
			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
CCTC*	Code Number	KS Statement	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IT 01	IT01	Demonstrate effective professional communication skills and practices that enable positive customer relationships.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IT 02	IT02	Use product or service design processes and guidelines to produce a quality information technology (IT) product or service.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IT 03	IT03	Demonstrate the use of cross-functional teams in achieving IT project goals.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IT 04	IT04	Demonstrate positive cyber citizenry by applying industry accepted ethical practices and behaviors.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IT 05	IT05	Explain the implications of IT on business development.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IT 06	IT06	Describe trends in emerging and evolving computer technologies and their influence on IT practices.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IT 07	IT07	Perform standard computer backup and restore procedures to protect IT information.				Yes	Yes	Yes	Yes		Yes		
IT 08	IT08	Recognize and analyze potential IT security threats to develop and maintain security requirements.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IT 9	IT09	Describe quality assurance practices and methods employed in producing				Yes	Yes	Yes	Yes			Yes	
IT 10	IT10	Describe the use of computer forensics to prevent and solve information						Yes	Yes		Yes		
IT 11	IT11	Demonstrate knowledge of the hardware components associated with				Yes	Yes		Yes			Yes	
IT 12	IT12	Compare key functions and applications of software and determine				Yes	Yes		Yes	Yes	Yes	Yes	

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CCTC*	Code Number	KS Statement
IT-SUP 01	ITSS01	Provide technology support to maintain service.
IT-SUP 02	ITSS02	Manage operating systems and software applications, including maintenance of upgrades, patches and service packs.
IT-SUP 03	ITSS03	Apply appropriate troubleshooting techniques in resolving computer hardware, software and configuration problems.
IT-SUP 04	ITSS04	Perform installation, configuration and maintenance of operating systems.
IT-SUP 05	ITSS05	Demonstrate the use of networking concepts to develop a network.
IT-SUP 06	ITSS06	Evaluate the effectiveness of an information system.
IT-SUP 07	ITSS07	Employ system installation and maintenance skills to set-up and maintain an information system.
IT-SUP 08	ITSS08	Employ system administration and control skills to monitor the performance of an information system.
IT-SUP 09	IFPC09	Employ technical writing and documentation skills in support of
IT-SUP 10	IFPC10	Apply quality assurance processes to maximize information

[High School Name]
[Community College Name]
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