7019 **Skills-to-Course Matrix**

Computer Technology

Tigard High School Portland Community College 9-Oct-19

CCTC* Code Number

IT01

IT02

IT03

IT04

IT05

IT06

IT07

IT08

IT09

IT 01

IT 02

IT 03

IT 04

IT 05

IT 06

IT 07

IT 08

IT 9

IT 10

Information & Communications Technology Cluster

<u>Instructions</u>: 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 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 trigger the TSA for this POS. 10) Finally, check those standards that are taught with inte and purpose, and are assessed in each course. Note: The optional Focus Area tabs be are included for those POSs that have a very specific industry fociusare using those ski sets for multiple options in a Progam of Study or if you want to use another set of indust validated standards.

Compare key functions and applications of software and determine

Na nd y c or the l ar	nity college name. 4) Enter the date. 5) Click on the cell for Course 1 me, etc., and replace with your POS course namessecondary and first ary. 6) Enter school course numbers. 7) Enter NCES code for the only). 8) Enter number of credits awarded. 9) Identify those courses that his POS. 10) Finally, check those standards that are taught with intent re assessed in each course. Note: The optional Focus Area tabs below se POSs that have a very specific industry fociusare using those skill ions in a Progam of Study or if you want to use another set of industry	CS 161. Computer Sci	Jence CS 162A. Programmin	gin Linux	d Programming	T 2: Network Adminis	tration Security	TA: Server Administr	ation T 5. Windows Operati	ing Systems	genent 1. Mobile Devices	web Design
		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
C	uster Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
oer	KS Statement	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Demonstrate effective professional communication skills and practices that enable positive customer relationships.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	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	
	Demonstrate the use of cross-functional teams in achieving IT project goals.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Demonstrate positive cyber citizenry by applying industry accepted ethical practices and behaviors.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Explain the implications of IT on business development.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Describe trends in emerging and evolving computer technologies and their influence on IT practices.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Perform standard computer backup and restore procedures to protect IT information.				Yes	Yes	Yes	Yes		Yes		
	Recognize and analyze potential IT security threats to develop and maintain security requirements.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Describe quality assurance practices and methods employed in producing			_	Yes	Yes	Yes	Yes			Yes	
	Describe the use of computer forensics to prevent and solve information						Yes	Yes		Yes		
	Demonstrate knowledge of the hardware components associated with				Yes	Yes		Yes			Yes	

Yes

Yes

Yes

Yes

Yes

Yes



Tigard High School Portland Community College 9-Oct-19

CCTC* Code Number

ITSS01

ITSS02

ITSS03

ITSS04

ITSS05

ITSS06

ITSS07

ITSS08

IFPC09

IFPC10

IT-SUP 01

IT-SUP 02

IT-SUP 03

IT-SUP 04

IT-SUP 05

IT-SUP 06

IT-SUP 07

IT-SUP 08

IT-SUP 09

IT-SUP 10

Information Support Services Focus Area

<u>Instructions</u>: 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 cours numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number 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 fociusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of

Focus Area Knowledge and Skills (CTE standards)

0	n Support Services Focus Area											
	e Program of Study name above. 2) Enter your high				in							
	e community college name. 4) Enter the date. 5) Click		Jence CS 162A. Programmi	CS 1628. Advanced	ning.				ation S. Windows Operat	ans		
	lame, Course 2 Name, etc., and replace with your POS		c .	Lint	amm	IT 2: Network Adminis	noi		^	Cyste	Å.	
	y and first year of post-secondary. 6) Enter school course		ence	din	rodic	<u>,</u>	ratio		ation.	ngs,	arnet	
	code for the course (secondary only). 8) Enter number of	, es ^c	arnif	d	ξ`	ainis	irity	, aist	arat	78Q	ي ج	•
	tify those courses that trigger the TSA for this POS. 10)	CS 161: Computer Sci	draft.	ance	ician	Adm	T3. Nemon Security	dhin	Obe	Ing Sys	71. Mobile Devices	
	dards that are <u>taught with intent and purpose</u> , and are	OMP	Prob	Adve	chni	ork,	,oř* Ž	or AC	MS	vase .	"6 _{Oc}	nr.
	. Note: The optional Focus Area tabs below are included	دي.	esp.,	£28.,	1 ¹ 00	Jeth	-16th	cerve	Nind	Catal	Mobil	web Design
	a very specific industry fociusare using those skill sets	5/0	5 Nor	5 No.	V.Y.	1 2· T	√3 [.] ~	, k. 5	, 65. N	, 6 ^{.V}	1.1.	16p
<u>a F</u>	Progam of Study or if you want to use another set of	6	<u> </u>	<u> </u>	1				<u> </u>	<u> </u>	<u> </u>	<u></u>
		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
a	Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
er	KS Statement	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Provide technology support to maintain service.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Manage operating systems and software applications, including											
	maintenance of upgrades, patches and service packs.				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Apply appropriate troubleshooting techniques in resolving				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	computer hardware, software and configuration problems. Perform installation, configuration and maintenance of operating											
	systems.				Yes	Yes	Yes	Yes	Yes		Yes	
	Demonstrate the use of networking concepts to develop a network.				Yes	Yes		Yes			Yes	
	Evaluate the effectiveness of an information system.					Yes		Yes		Yes		
	Employ system installation and maintenance skills to set-up and				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	maintain an information system.				162	1 6 5	162	162	162	162	162	
	Employ system administration and control skills to monitor the				Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	performance of an information system.											
	Employ technical writing and documentation skills in support of				Yes	Yes	Yes	Yes	Yes.		Yes	
	Apply quality assurance processes to maximize information				Yes	Yes	Yes	Yes	Yes	Yes	Yes	+
			1	I	1		I				I	1



[High School Name] [Community College Name] [Date]

CCTC* Code Number

IT- NET 1

IT-NET 2

IT-NET 3

IT-NET 4

IT-NET 5

ITNW01

ITNW02

ITNW03

ITNW04

ITNW05

Network Systems Focus Area

<u>Instructions</u>: 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 cours 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 fociusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of

Focus Area Knowledge and Skills (CTE standards)

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th th 1 N la en en	e Program of Study name above. 2) Enter your high ne community college name. 4) Enter the date. 5) Click Name, Course 2 Name, etc., and replace with your POS ry and first year of post-secondary. 6) Enter school course 3 code for the course (secondary only). 8) Enter number of tify those courses that trigger the TSA for this POS. 10) dards that are taught with intent and purpose, and are 1. Note: The optional Focus Area tabs below are included as a very specific industry fociusare using those skill sets	cs 161. Computer Sci	ence CS 162A: Programmi	CS 1628: Advanced	d Programming in C	Network Admin	stration Security	Server Administ	Tation Spera	IT 6. Database Manac	genent Mobile Devices	web Desir
	Progam of Study or if you want to use another set of	હ ^{ું}	c ^s	ડ ^{ું}	4v.	<2.	43.	₹ø.	48.	40.	41.	Nep
		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
<u>a</u>	Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
er	KS Statement	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Analyze customer or organizational network system needs and requirements.					Yes	Yes	Yes		Yes	Yes	
	Analyze wired and wireless network systems to determine if they meet specifications (e.g., IEEE, power, security).				Yes	Yes	Yes	Yes			Yes	
	Design a network system using technologies, tools and standards.	_				Yes	Yes	Yes			Yes	
	Perform network system installation and configuration.	_			Yes	Yes	Yes	Yes	Yes		Yes	
	Perform network administration, monitoring and support to maintain a network system.					Yes	Yes	Yes		Yes	Yes	
	-											
					+						1	
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Tigard High School
Portland Community College
9-Oct-19

Programming & Software Development Focus Area

community Name, etc. ry. 6) Enter s number of c ly, check the rse. Note:	college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, and replace with your POS course namessecondary and first year of post-school course numbers. 7) Enter NCES code for the course (secondary only) credits awarded. 9) Identify those courses that trigger the TSA for this POS. ose standards that are taught with intent and purpose, and are assessed in The optional Focus Area tabs below are included for those POSs that have a fociusare using those skill sets for multiple options in a Progam of Study or if	Com	uter science	cs 1628. Advance	A Programming I.	T 2. Network Admin	Istation	IT A. Server Admin	Istration Opera	IT 6. Database Mana	genent 1. Mobile Device	as Web Design
		101562	10152	10154	10251.1 & 10251.2	10101	10108	10102	10111	10053	10206	10201
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<u>Fo</u>	ocus Area Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Code Numbe	er KS Statement	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ITPG01	Analyze customer software needs and requirements.	Yes	Yes	Yes			Yes		Yes	Yes		
ICXE02	customer specifications.	Yes	Yes	Yes					Yes	Yes		
ITPG03	Analyze system and software requirements to ensure maximum operating efficiency.	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	
ITPG04	Demonstrate the effective use of software development tools to develop software applications.	Yes	Yes	Yes						Yes		
ITPG05	Apply an appropriate software development process to design a software application.	Yes	Yes	Yes						Yes		
ITPG06	Program a computer application using the appropriate programming language.	Yes	Yes	Yes						Yes		
ITPG07	Demonstrate software testing procedures to ensure quality products.	Yes	Yes	Yes		Yes	Yes	Yes		Yes		
ITPG08	Perform quality assurance tasks as part of the software development cycle.	Yes	Yes	Yes		Yes	Yes	Yes		Yes		
ITPG09	Perform software maintenance and customer support functions.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
111 000	· ·											
ITPG10	Design, create and maintain a database.		Yes	Yes						Yes		
	ons: 1) Entered community Name, etc. ry. 6) Entered number of colly, check the rise. Note: cific industry to use anote of the research of the rise of the rise of the rise. The rise of the rise of the rise of the rise. Note: cific industry to use anote of the rise of the	community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, etc., and replace with your POS course namessecondary and first year of post-y. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only) number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. by, check those standards that are taught with intent and purpose, and are assessed in Inse. 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Computer Technology

Tigard High School Portland Community College 9-Oct-19

CCTC* Code Number

ICXHi01

ICXHi02

ICXHi03

ICXH04

ICXHi05

ICXHi06

ICXHi07

ICXHi08

ICXHi09

ICXHi10

IT-WD 1

IT-WD 2

IT-WD3

IT - WD 4

IT - WD 5

IT-WD 6

IT-WD7

IT-WD 8

IT-WD 9

IT-WD 10

Web & Digital Communications Focus Area

<u>Instructions</u>: 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 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 cours numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number 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 fociusare using those skill sets multiple options in a Progam of Study or if you want to use another set of industry

Focus Area Knowledge and Skills (CTE standards)

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r tl	ne Program of Study name above. 2) Enter your high				in O							
er t	he community college name. 4) Enter the date. 5) Click on			.+	ing.					ms		
Na	me, Course 2 Name, etc., and replace with your POS			Linu	ATTITU'		~		_	uste.	X.	
	ary and first year of post-secondary. 6) Enter school course		nce	in	dia		ratio		tion	3	nent	
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	ntify those courses that trigger the TSA for this POS. 10)	iter .	ami	,ce	ian	drill	c ecui	mini	Ob _e ,	Marie	ajice ⁵	
	ndards that are <u>taught with intent and purpose</u> , and are	MPL	arogic	g _{ya} ,	mic.	N. A. K.	1482	Adi	WE	ASO I	Oper	ç
	e. Note: The optional Focus Area tabs below are included	· co,	· v. 6.	ei. Au	. 4°C'	stwo.	stwo.	aruel	indo	taba	abile	sign
	e a very specific industry fociusare using those skill sets for	ν _{ον} .	185r	1855		J. He	3. 4°	,.5 ⁶ °	NI.	6: O ₀	1. MC	"De
	ogam of Study or if you want to use another set of industry	cs 161. Computer Sci	cs 162A. Programmi	CS 1628: Advance	47	T 2. We two N Admin	IT 3: Network Securit	4 %	ration Taindons Opera	Ins IT 6: Database Mana	IT 7. Mobile Device	Ner
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rea	a Knowledge and Skills (CTE standards)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
er	KS Statement	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Analyze customer requirements to design and develop a Web or											Yes
	digital communication product.											1.00
	Apply the design and development process to produce user-											Yes
	focused Web and digital communications solutions.											+
	Write product specifications that define the scope of work aligned to customer requirements.											Yes
	Demonstrate the effective use of tools for digital communication										+	+
	production, development and project management.											Yes
	production, acrosspinion and project management											
	Develop, administer and maintain Web applications.											Yes
	Design, create and publish a digital communication product											Yes
	based on customer needs											165
	Evaluate the functionality of a digital communication product											Yes
	using industry accepted techniques and metrics.											1.00
	Implement quality assurance processes to deliver quality digital											Yes
	communication products and services										+	
	Perform maintenance and customer support functions for digital										+	Yes
	Comply with intellectual property laws, copyright laws and ethical											Yes
			I	I	ı		1			1	I	1 1