Beaverton High School
Portland Community College
Digital Media Program of Study
5/22/2016

# Information & Communications Technology Cluster

	Cluster							
	Skills-to-Course Matrix							
	Cluster Knowledge and Skills (CTE standards)	Computer Graphics 1	TSA?  Computer Graphics?	v 15A? ✓ web Design	☐ Digital Photography	TSA?  Uideo lournalism	TSA? TSA?	
Code Number								
ITC01.01	Use oral and written communication in creating, expressing, and interpreting information and ideas within the information and communication technologies cluster occupations.	☑ □	<b>☑</b>	✓	☑		☑	
ITC02.01	Exhibit ethical and professional behavior.		☑	✓	☑	☑	☑	
ITC03.01	Use information technology tools specific to the information and communication technologies cluster to access, manage, integrate, and create information.		☑	☑	☑	☑	☑	
ITC04.01	Explore, plan, and effectively manage careers within the information and communication technologies cluster.		<b>☑</b>		☑			
ITC05.01	Perform problem solving and troubleshooting for information and communication cluster.		V	V	V	V	V	
ITC06.01	Demonstrate an understanding of systems within the information and communication technologies environment.	Ø	v	V	V	☑	☑	
ITC07.01	Use knowledge of design, operation, and maintenance of technological systems critical to the information and communication technologies cluster.	Ø	v	V	☑	☑	V	
ITC08.01	Understand and adhere to safety, health, and environmental standards and regulations.	v	v	V	v	☑	abla	
ITC09.01	Demonstrate ability to develop, implement, and maintain cybersecurity.			V				
ITC10.01	Demonstrate ability to manage projects.	v	v	v	v	V	☑	
ITC11.01	Demonstrate ability to manage, monitor, and evaluate work processes and procedures.	v	Ø	v	v	Ø	☑	

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### **Database Adminstration Focus Area**

### **Skills-to-Course Matrix**

	Focus Area Knowledge and Skills (CTE standards)	course 1	rsa³ course 2	TSA? ☐ COUISE 3	rsa? □ coursea	tsh <sup>3</sup> course s	TSA? COUTSE 6	√eνς. □
Code Numbe	r KS Statement			&	&			_
ICPA01.01	Analyze and design database.							
ICPA02.01	Develop and implement database.							
ICPA03.01	Perform administration and maintenance of database.							
ICPA04.01	Provide data assurance for database.							
ICPA05.01	Provide client and user support.							
ICPA06.01	Perform database testing.							

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# **Digital Media Focus Area**

## **Skills-to-Course Matrix**

<u>!</u>	Focus Area Knowledge and Skills (CTE standards)	Course 1	rsa <sup>2</sup> □ course 2	Tsa <sup>3</sup> □ Course 3	tsa <sup>3</sup> □ course a	tsh³ □ course s	rsa³ course 6	<b>√</b> 58 <sup>3.</sup>
Code Numbe	r KS Statement	_ 🗆						
ICPB01.01	Perform analysis on internal and external customer requirements.							
ICPB02.01	Produce visual and functional design.							
ICPB03.01	Perform media production and acquisition.							
ICPB04.01	Implement design.							
ICPB05.01	Test and deliver the product.							

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# **Enterprise System Analysis & Integration Focus Area**

### **Skills-to-Course Matrix**

	Focus Area Knowledge and Skills (CTE standards)	Course 1	TSA <sup>2</sup> Course 2	TSA³ Course³	TSA? □ COUISEA	tsa? □ course s	TSA? Course 6	√eνς. □
Code Numbe	r KS Statement							
ICPC01.01	Define customer requirements.							
ICPC02.01	Determine solutions for new and existing systems.							
ICPC03.01	Provide strategic direction for systems configuration and interoperability.							
ICPC04.01	Provide high-level technology management.							
ICPC05.01	Implement systems.							
ICPC06.01	Manage systems quality assurance and testing.							

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# **Interactive Media (AIC) Focus Area**

## **Skills-to-Course Matrix**

	Focus Area Knowledge and Skills (CTE standards)	course 1	TSA COUISE 2	TsA° Course 3	rsa course a	15A* Course's	TSA* COUISE 6	<b>75</b> A³
Code Numbe	r KS Statement							
VPPA01.01	Gather and analyze interactive media customer requirements.							
VPPA01.02	Define scope of interactive media work in written form.							
VPPA01.03	Create interactive media product specifications.							
VPPA01.04	Demonstrate and apply knowledge of project management.							
VPPA01.05	Demonstrate the effective use of tools for interactive media production, development and project management.							
VPPA01.06	Demonstrate and apply knowledge of web programming and hosting.							
VPPA01.07	Create/implement interactive media product.							
VPPA01.08	Test interactive media product.							
VPPA01.09	Deliver a quality interactive media product.							
VPPA01.10	Perform maintenance and customer support functions for interactive media products.							

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# Network Design & Administration (AIC) Focus Area

### **Skills-to-Course Matrix**

	Focus Area Knowledge and Skills (CTE standards)	course 1	15th Course 2	TSA COUISE 3	TSA Course A	rsa courses	tsa conse 6	75 <sup>A.</sup>
Code Numb	er KS Statement							
ICPD01.01	Perform analysis of customer requirements.							
ICPD02.01	Design network.							
ICPD03.01	Configure and deploy network.							
ICPD04.01	Perform testing on network.							
ICPD05.01	Manage network.							
ICPD06.01	Maintain network and manage growth.							
ICPD07.01	Perform security administration.							

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# Programming & Software Engineering (AIC) Focus Area

### **Skills-to-Course Matrix**

	Focus Area Knowledge and Skills (CTE standards)	Course 1	rsa <sup>3</sup> course 2	75A³ □ course³	75A³ Course A	15A³ Course 5	T5A³ COUISE 6	TSA? □
Code Numbe	r KS Statement	_ 🗆						
ICPE01.01	Perform analysis of customer requirements.							
ICPE02.01	Develop structure.							
ICPE03.01	Design and develop program.							
ICPE04.01	Implement program.							
ICPE05.01	Test and validate program.							
ICPE06.01	Release product.							

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## **Technical Support (AIC Focus Area**

### **Skills-to-Course Matrix**

	Focus Area Knowledge and Skills (CTE standards)	Course 1	75A <sup>2</sup> □ course 2	rsa <sup>3</sup> □ course <sup>3</sup>	TSA? Course A	rsa <sup>3</sup>	75A <sup>3</sup> Course 6	rsa?. □
Code Numbe	r KS Statement							
ICPF01.01	Perform troubleshooting.							
ICPF02.01	Provide facilitation and customer service.							
ICPF03.01	Perform hardware and software installation, configuration, upgrades, and network support.							
ICPF04.01	Perform system operations, monitoring, and maintenance.							

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# **Technical Writing (AIC) Focus Area**

## **Skills-to-Course Matrix**

<u> </u>	Focus Area Knowledge and Skills (CTE standards)	Course 1	rsa <sup>3</sup> □ course <sup>2</sup>	75A³ Course³	rsa <sup>?</sup> □ course a	75A³ □ course 5	rsh <sup>3</sup> □ Course 6	<b>\</b> 58?
Code Number	KS Statement	_ 🗆						
ICPG01.01	Analyze project requirements.							
ICPG02.01	Perform research.							
ICPG03.01	Design the document.							
ICPG04.01	Develop and write the document.							
ICPG05.01	Publish and package the document.							

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## **Telecommunications Focus Area**

### **Skills-to-Course Matrix**

<u> </u>	Focus Area Knowledge and Skills (CTE standards)	course 1	rsa. □ course 2	Tek Course 3	TSA COUISE A	TSA* Course S	TSA° COURSE 6	75 <sup>A</sup> *
Code Number	KS Statement							
CSPCa01.01	Demonstrate the use of industry-specific terminology, tools and test equipment related to telecommunications.							
CSPCa01.02	Describe the characteristics of analog and digital technologies applications for telecommunications.							
CSPCa01.03	Demonstrate installation techniques and processes utilizing telecommunication tools and materials.							
CSPCa01.04	Analyze schematics, diagrams, and blueprints using appropriate terms, vocabulary and industry-specific codes and regulations.							
CSPCa01.05	Apply decision-making and problem-solving techniques to repair and replacement procedures for telecommunications industry.							
CSPCa01.06	Apply knowledge of telecommunications to provide service and solve problems for customers.							

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## **Web Development & Administration Focus Area**

## **Skills-to-Course Matrix**

	Focus Area Knowledge and Skills (CTE standards)	Course 1	rsa <sup>3</sup> □ course 2	TSA? □ COUISE 3	TSA? COUISE A	75A³ Course's	TSA? COUISE 6	<b>√</b> 5 <sup>6</sup> ?
Code Numbe	r KS Statement	_ 🗆						
ICPH01.01	Understand and perform technical analysis.							
ICPH02.01	Understand and perform web programming.							
ICPH03.01	Develop, deliver and manage web content.							
ICPH04.01	Implement and maintain site and applications.							
ICPH05.01	Manage web environment.							
ICPH06.01	Manage enterprise-wide web activities.							
ICPH07.01	Perform testing and quality assurance.							
ICPH08.01	Develop and implement web database.							