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

Portland Community College Bioscience Technology 12/1/2016

Health Sciences Cluster

2016

Skills-to-Course Matrix

<u>Instructions</u>: 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. Note: You only need to use the optional Focus Area tabs below if you are using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.

	Cluster Knowledge and Skills (CTE standards)			BIT 105	BIT 101	811 10 ⁸	BIT 125	BIT 126	BIT 181
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?
HL 1	HL01	Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career.	х	х	х				x
HL 2	HL02	Explain the healthcare worker's role within their department, their organization, and the overall healthcare system.			х			х	х
HL 3	HL03	Identify existing and potential hazards to clients, co-workers, visitors, and self in the healthcare workplace.							
HL 4	HL04	Evaluate the roles and responsibilities of individual members as part of the healthcare team and explain their role in promoting the delivery of quality health care.	х						
HL 5	HL05	Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.	x						
HL 6	HL06	Evaluate accepted ethical practices with respect to cultural, social and ethnic differences within the healthcare workplace.							

Community College Name: CTE Program of Study Name:

Portland Community College Bioscience Technology 12/1/2016

Biotechnology, Research & Development Focus Area

2016

Skills-to-Course Matrix

Summarize and explain the larger ethical, moral and legal issues related to

biotechnology research, product development and use in society.

HL-BRD 6

HLBR06

<u>Instructions</u>: 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

Focus Area Knowledge and Skills (CTE standards)		BIT 102	BIT 105	BIT 101	BIT 109	BIT 125	Bit 126	BIT 185	
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	
HL-BRD 1	HLBR01	Summarize the goals of biotechnology research and development within legal and ethical protocols.	Х	х	х	Х	Х	Х	
HL-BRD 2	HLBR02	Apply the fundamentals of biochemistry, cell biology, genetics, mathematical concepts, microbiology, molecular biology, organic chemistry and statistics to conduct effective biotechnology research and development of products.	x	х	х	x	x		
HL-BRD 3		Demonstrate basic knowledge of recombinant DNA, genetic engineering, bioprocessing, monoclonal antibody production, nanotechnology, bioinformatics, genomics, proteomics and transcriptomics to conduct biotechnology research and development.	X						
HL-BRD 4	•	Demonstrate the principles of solution preparation, sterile techniques, contamination control, and measurement and calibration of instruments used in biotechnology research.		X					
HL-BRD 5	HLBR05	Determine processes for product design and production and how that work contributes to an understanding of the biotechnology product development process.	X						

Date:

Community College Name: CTE Program of Study Name:

Portland Community College Bioscience Technology 12/1/2016

Date:

2016

Health Diagnostics Focus Area

Skills-to-Course Matrix

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	Focus Area Knowledge and Skills (CTE standards)			Bit Jos	BIT 201	HT 109	BIT 225	Bit 126	Bit 185
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	
HL-DIA 1	HLDG01	Communicate key diagnostic information to healthcare workers and patients in an accurate and timely manner.							
HL-DIA 2	HLDG02	Assess and report patient's/client's health status in order to monitor and document patient progress.							
HL-DIA 3	HLDG03	Demonstrate the principles of body mechanics for positioning, transferring and transporting of patients/clients, and perform them without injury to the patient/client or self.							
HL-DIA 4	HLDG04	Explain procedures and goals to the patient/client accurately and effectively, using strategies to respond to questions and concerns.							
HL-DIA 5	HLDG05	Select, demonstrate and interpret diagnostic procedures.							

Community College Name: CTE Program of Study Name:

Date:

Bioscience Technology

12/1/2016

Health Infomatics Focus Area

2016

Portland Community College

Skills-to-Course Matrix

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Focus Area Knowledge and Skills (CTE standards)		BIT 102	elt jos	811 10 ¹	BIT 109	BIT 125	BIT 126	BIT 185	
ССТС	Code Numbe	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	
HL-HI 1	HLIF01	Communicate health information accurately and within legal and regulatory guidelines, upholding the strictest standards of confidentiality.							
HL-HI 2	HLIF02	Describe the content and diverse uses of health information.							
HL-HI 3	HLIF03	Demonstrate the use of systems used to capture, retrieve and maintain confidential health information from internal and external sources.							

Date:

Community College Name: CTE Program of Study Name:

Portland Community College Bioscience Technology 12/1/2016

Support Services Focus Area

2016

Skills-to-Course Matrix

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	Focus Area Knowledge and Skills (CTE standards)			bit 105	81T 20T	BIT 108	BIT 125	Bif 126	BIT 185
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	
HL-SUP 1	HLSS01	Describe, differentiate and safely perform the responsibilities of healthcare support services roles.							
HL-SUP 2	HLSS02	Demonstrate work practices that maintain a clean and healthy healthcare facility to reduce or eliminate pathogenic organisms.							
HL-SUP 3	HLSS03	Follow established internal and external guidelines in order to provide high-quality, effective support services in the healthcare facility.							
HL-SUP 4	HLSS04	Maximize available resources for proper care and use of healthcare equipment and materials.							
HL-SUP 5	HLSS05	Implement healthcare facility standards in order to maintain high- quality healthcare facilities.							

Date:

Community College Name: CTE Program of Study Name:

Portland Community College Bioscience Technology 12/1/2016

Therapeutic Services Focus Area

2016

Skills-to-Course Matrix

Focus Area Knowledge and Skills (CTE standards)

determine if treatment goals are being met.

HL-THR 4

HLTS04

Evaluate patient/client needs, strengths and problems in order to

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			₩,	₽,	₽1,	₽,,	₩,	₽I,	₽,
ССТС	Code Number	KS Statement	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	
HL-THR 1	HLTS01	Utilize communication strategies to answer patient/client							
nL-Ink i		questions and concerns on planned procedures and goals.							
HL-THR 2	HLTS02	Communicate patient/client information among healthcare team							
		members to facilitate a team approach to patient care.							
HL-THR 3		Utilize processes for assessing, monitoring and reporting							
	HLTS03	patient's/clients' health status to the treatment team within							
		protocol and scope of practice.							