Skills-to-Course Matrix

Health Sciences/Biotechnology

Hillsboro High School Portland Community College 10/17/2019

Therapeutic Services Focus Area

, ly	& Biology Hi	E Biology 2 HIL	IB DP Biology St.	intro to Bioscience Tech	Advanced Bioscience To			
	0305711/0305712	0305721/0305722	0305731/0305732	306302	306312			
	3057	3057	3057	3063	3063			
	1	1	1	0.5	0.5			
	Y	Y	Υ	Υ	Υ			
nd						_		

			305 <i>1</i>	305 <i>1</i>	3057	3063	3063		·
	Focus Area Knowledge and Skills (CTE standards)			1	1	0.5	0.5		
сстс*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Υ		
HL-THR 1	HLTS01	Utilize communication strategies to answer patient/client questions and							
112-1111		concerns on planned procedures and goals.							
HL-THR 2		Communicate patient/client information among healthcare team							
111111111111111111111111111111111111111		members to facilitate a team approach to patient care.							
		Utilize processes for assessing, monitoring and reporting							
HL-THR 3	HLTS03	patient's/clients' health status to the treatment team within protocol and							
		scope of practice.							
HL-THR 4	HLTS04	Evaluate patient/client needs, strengths and problems in order to	_						
I IIII 4	HL1304	determine if treatment goals are being met							

Skills-to-Course Matrix

Health Sciences/Biotechnology

Hillsboro High School Portland Community College 10/17/2019

Health Sciences 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 NCES code Identify thos standards t Note: The specific ind or if you wa

secon NCES	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			A Biology Lift A Biology 2 Jul. A Dr Briology St. Industries and St. Andrew Broke St. Andre								
standa Note: specif	standards that are <u>taught with intent and purpose</u> , and are <u>assessed</u> 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 industry validated standards.			E Biology 2 Hil	IB DP Biology St	Intro to Bioscial	Advanced Biosc	(Course 6 Maries	Course 1 Maries	Course & Names	(Course 9 Maries	Course to Ham
				0305721/0305722	0305731/0305732	306302	306312	[Course Number]	[Course Number]	[Course Number]		
			3057	3057	3057	3063	3063	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]
	Clus	ster Knowledge and Skills (CTE standards)	1	1	1	0.5	0.5	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
CCTC*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Υ	[TSAY or N?]	[TSAY or N?]	[TSAY or N?]	[TSAY or N?]	[TSAY or N?]
HL 1	HL01	Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career.										
HL 2	H H H H H	Explain the healthcare worker's role within their department, their organization, and the overall healthcare system.										
HL 3	HLU3	Identify existing and potential hazards to clients, co-workers, visitors, and self in the healthcare workplace.										
HL 4		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.										
HL 5	HLU5	Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.										
HL 6	HL06	Evaluate accepted ethical practices with respect to cultural, social and ethnic differences within the healthcare workplace.										

Skills-to-Course Matrix

Health Sciences/Biotechnology

Hillsboro High School Portland Community College 10/17/2019

Biotechnology, Research & Development Focus Area

IB Biology 1 HI	IE Biology 2 Hil	IB DP Biology St	Intro to Bioscience Te	chnologies Technol	odie ⁻
0305711/0305712	0305721/0305722	0305731/0305732	306302	306312	
3057	3057	3057	3063	3063	

			000071170000712	1 00007217	0000122 000	010170000102	000002	000012		
			3057	30	57	3057	3063	3063		
	Focu	<u>ıs Area</u> Knowledge and Skills (CTE standards)	1	1	1	1	0.5	0.5		
сстс*	Code Number	KS Statement	Y	Y	Y	Υ	Y	Υ		
HL-BRD 1	HLBR01	Summarize the goals of biotechnology research and development within legal and ethical protocols.					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	x	х		x	X		
HL-BRD 3	HLBR03	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		x		x	X		
HL-BRD 4	HLBR04	Demonstrate the principles of solution preparation, sterile techniques, contamination control, and measurement and calibration of instruments used in biotechnology research.					х	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.					Х	x		
HL-BRD 6	HLBR06	Summarize and explain the larger ethical, moral and legal issues related to biotechnology research, product development and use in society.	x				x	х		

Skills-to-Course Matrix

Health Sciences/Biotechnology

Hillsboro High School Portland Community College 10/17/2019

Health Diagnostics Focus Area

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& Biology Hi	R Biology 2 hr	IE DP Biology 3	Intro to Bioscience 1	Advanced Bioscience	
0305711/0305712	0305721/0305722	0305731/0305732	306302	306312	

			0305711/0305712	0305721/0305722	0305731/0305732	306302	306312		
			3057	3057	3057	3063	3063		
	Focus Area Knowledge and Skills (CTE standards)			1	1	0.5	0.5		
сстс*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Υ		
HL-DIA 1		Communicate key diagnostic information to healthcare workers and patients in an accurate and timely manner.							
HL-DIA 2		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		Select, demonstrate and interpret diagnostic procedures.							

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Health Sciences/Biotechnology

Hillsboro High School Portland Community College 10/17/2019

Health Infomatics Focus Area

		<i>∳</i>	Into to Bioscience To	Advanced Bioscience	echnologi
IE Biology I HIL	IE Biology 2 Fil	IE DP Eidlogy 5	Intro to Bioscies	Advanced Biosc	
0305711/0305712	0305721/0305722	0305731/0305732	306302	306312	

			0305711/0305712	0305721/0305722	0305731/0305732	306302	306312			
			3057	3057	3057	3063	3063			
	Focus Area Knowledge and Skills (CTE standards)	1	1	1	0.5	0.5			
сстс*	Code Number KS Stat	ement	Υ	Υ	Y	Υ	Υ			
HL-HI 1	HLIF01 Communicate health information according the s	strictest standards of confidentiality.								
HL-HI 2	HLIF02 Describe the content and diverse use	es of health information.								
HL-HI 3	Demonstrate the use of systems use confidential health information from i									

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Health Sciences/Biotechnology

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Health Support Services Focus Area

IB Biology 1 HL	ie Biology 2 Hil	IE DP Biology St.	Intro to Bioscience Te	Advanced Bioscience	echnologie
0305711/0305712	0305721/0305722	0305731/0305732	306302	306312	

			0305711/0305712	0305721/0305722	0305731/0305732	306302	306312			
			3057	3057	3057	3063	3063			
	Focus Ai	rea Knowledge and Skills (CTE standards)	1	1	1	0.5	0.5			
CCTC*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Υ			
HL-SUP 1	H 5501	Describe, differentiate and safely perform the responsibilities of healthcare support services roles.								
HL-SUP 2	H - NI	Demonstrate work practices that maintain a clean and healthy healthcare facility to reduce or eliminate pathogenic organisms.								
HL-SUP 3		Follow established internal and external guidelines in order to provide high-quality, effective support services in the healthcare facility.								
HL-SUP 4	H 5504	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.								