

# 2019

## Skills-to-Course Matrix

## Health Sciences/Biotechnology

## Hillsboro High School

# Portland Community College

**10/17/2019**

## Therapeutic Services Focus Area

**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 focus are using those skill sets for multiple options in a Program of Study or if you want to use another set of industry validated standards.

[illegible]

# 2019

## Skills-to-Course Matrix

## Health Sciences/Biotechnology

## Hillsboro High School

# Portland Community College

**10/17/2019**

## Health Sciences Cluster

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2019

Skills-to-Course Matrix

Health Sciences/Biotechnology

Hillsboro High School  
Portland Community College  
10/17/2019

Biotechnology, Research & Development Focus Area

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			IB Biology 1 HL	IB Biology 2 HL	IB DP Biology SL	Intro to Bioscience Technologies	Advanced Bioscience Technologies					
			0305711/0305712	0305721/0305722	0305731/0305732	306302	306312					
			3057	3057	3057	3063	3063					
			1	1	1	0.5	0.5					
Focus Area Knowledge and Skills (CTE standards)			Y	Y	Y	Y	Y					
CCTC*	Code Number	KS Statement										
HL-BRD 1	HLBR01	Summarize the goals of biotechnology research and development within legal and ethical protocols.				X	X					
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	X	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.				X	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	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	X					

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## Health Diagnostics Focus Area

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<b>Instructions:</b> 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 <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 focusare using those skill sets for multiple options in a Program of Study or if you want to use another set of industry validated standards.			<div>IB Biology1 HL</div>		<div>IB Biology 2 HL</div>		<div>IB DP Biology SL</div>		<div>Intro to Bioscience Technologies</div>		<div>Advanced Bioscience Technologies</div>					
<b>Focus Area Knowledge and Skills (CTE standards)</b>			<b>0305711/0305712</b>	<b>0305721/0305722</b>	<b>0305731/0305732</b>	<b>306302</b>	<b>306312</b>									
			<b>3057</b>	<b>3057</b>	<b>3057</b>	<b>3063</b>	<b>3063</b>									
			<b>1</b>	<b>1</b>	<b>1</b>	<b>0.5</b>	<b>0.5</b>									
			<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>									
<b>CCTC*</b>	<b>Code Number</b>	<b>KS Statement</b>														
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.														

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## Health Informatics Focus Area

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## Skills-to-Course Matrix

## Health Sciences/Biotechnology

## Hillsboro High School

**Portland Community College**

**10/17/2019**

## Health Support Services Focus Area

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