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

Health Sciences
Glencoe High School
Portland Community College
18-Oct-19

### **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 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 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.

Anatomy & Physiology	Health Science	Health Science 2	Introduction to Health?	Sciences Pro.	siolof
0205242/0205244	4400044/4400040	44000E4/44000ED	4.405.44%	0205222/0205224	100

or it yo	a want to asc	dilottici set of industry validated standards.	Υ-	X,	<b>V</b>	11.	Κ,					
			0305312/0305311	1400241/1400242	1400251/140025P	142541x	0305322/0305321	[Course Number]				
			03053	14002	14002	14251	03053	[NCES Code]				
	Clu	<u>ıster</u> Knowledge and Skills (CTE standards)	1	1	1	0.5	1	[# of Credits]				
сстс*	Code Number	KS Statement	Y	Υ	Υ	Υ	Y03053	[TSAY or N?]				
		Determine academic subject matter, in addition to high school graduation										
HL 1	HL01	requirements, necessary for pursuing a health science career.										
			X	X	X	Х	X					
HL 2	HL02	Explain the healthcare worker's role within their department, their										
TIL Z	TILUZ	organization, and the overall healthcare system.		X	X	X						
HL 3	HL03	Identify existing and potential hazards to clients, co-workers, visitors, and										
112 3	TILOS	self in the healthcare workplace.		Х	Х	X						
		Evaluate the roles and responsibilities of individual members as part of the										
HL 4	HL04	healthcare team and explain their role in promoting the delivery of quality										
		health care.		X	X	Х						
HL 5	HL05	Analyze the legal and ethical responsibilities, limitations and implications										
TIL	TILOS	of actions within the healthcare workplace.		X	X	X						
HL 6	HL06	Evaluate accepted ethical practices with respect to cultural, social and										
112 0	TILOU	ethnic differences within the healthcare workplace.		X	X	X						

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

#### **Health Sciences**

Glencoe High School Portland Community College 18-Oct-19

### Biotechnology, Research & Development 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 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.

koolois		0	. Jean <sup>th</sup> c	ciences Pre	siology
Anatomy & Physiology	Health Science	Health Science 2	Introduction to Health E	ciences y	
0305312/0305311	1400241/1400242	1400251/140025P	142541x	0305322/0305321	ΓCο

	<u>Str vandated St</u>		0305312/0305311	1400241/1400242	1400251/140025P	142541x	0305322/0305321	[Course Number]				
			03053	14002	14002	14251	03053	[NCES Code]				
	<u>Focu</u>	<u>ıs Area</u> Knowledge and Skills (CTE standards)	1	1	1	0.5	1	[# of Credits]				
ССТС*	Code Number	KS Statement	Y	Y	Y	Υ	Y03053	[TSAY or N?]				
HL-BRD 1		Summarize the goals of biotechnology research and development within legal and ethical protocols.			х							
HL-BRD 2		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.										
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.										
HL-BRD 4	HLBR04	Demonstrate the principles of solution preparation, sterile techniques, contamination control, and measurement and calibration of instruments used in biotechnology research.										
HL-BRD 5		Determine processes for product design and production and how that work contributes to an understanding of the biotechnology product development process.										
HL-BRD 6		Summarize and explain the larger ethical, moral and legal issues related to biotechnology research, product development and use in society.			х							

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### **Health Diagnostics Focus Area**

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Anatomy & Physiology	Health Science	Health Science 2	Introduction to Health &	Sciences Profes	siology
0305312/0305311	1400241/1400242	1400251/140025D	1/25/11v	0305322/0305321	ICa

			0305312/0305311	1400241/1400242	1400251/140025P	142541x	0305322/0305321	[Course Number]				
			03053	14002	14002	14251	03053	[NCES Code]				
	Focus Are	a Knowledge and Skills (CTE standards)	1	1	1	0.5	1	[# of Credits]				
CCTC*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Y03053	[TSAY or N?]				
HL-DIA 1		Communicate key diagnostic information to healthcare workers and patients in an accurate and timely manner.	х		х		Х					
HL-DIA 2		Assess and report patient's/client's health status in order to monitor and document patient progress.			Х							
HL-DIA 3		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		Explain procedures and goals to the patient/client accurately and effectively, using strategies to respond to questions and concerns.			Х							
HL-DIA 5		Select, demonstrate and interpret diagnostic procedures.			Х							

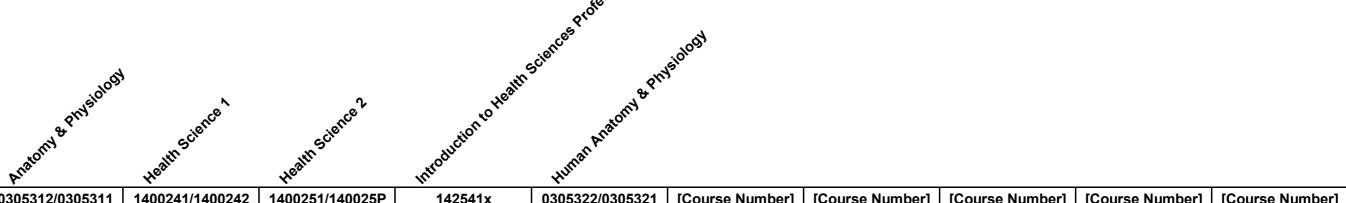
### **Skills-to-Course Matrix**

#### **Health Sciences**

Glencoe High School Portland Community College 18-Oct-19

#### **Health Infomatics Focus Area**

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			0305312/0305311	1400241/1400242	1400251/140025P	142341X	0305322/0305321	[Course Mulliper]	[Course Mulliber]	[Course Mulliber]	[Course Mulliber]	[Course Number]
			03053	14002	14002	14251	03053	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]
	Focus A	rea Knowledge and Skills (CTE standards)	1	1	1	0.5	1	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
сстс*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Y03053	[TSAY or N?]	[TSAY or N?]	[TSAY or N?]	[TSAY or N?]	[TSAY or N?]
HL-HI 1		Communicate health information accurately and within legal and regulatory guidelines, upholding the strictest standards of confidentiality.	X	X	Х	х	x					
HL-HI 2	HLIF02	Describe the content and diverse uses of health information.	Х	х	Х	Х	Х					
HL-HI 3		Demonstrate the use of systems used to capture, retrieve and maintain confidential health information from internal and external sources.										

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#### **Health Sciences**

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### **Health Support Services Focus Area**

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Anatomy & Physiology

Health Science 1

Health Science 2

Introduction to Health Science 1

Human Anatomy & Physiology

			0305312/0305311	1400241/1400242	1400251/140025P	142541x	0305322/0305321	[Course Number]				
			03053	14002	14002	14251	03053	[NCES Code]				
	Focus Ai	rea Knowledge and Skills (CTE standards)	1	1	1	0.5	1	[# of Credits]				
CCTC*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Y03053	[TSAY or N?]				
HL-SUP 1	I HL2201	Describe, differentiate and safely perform the responsibilities of healthcare support services roles.		X		Х						
HL-SUP 2	I HISSON	Demonstrate work practices that maintain a clean and healthy healthcare facility to reduce or eliminate pathogenic organisms.		X		X						
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	HLSS04	Maximize available resources for proper care and use of healthcare equipment and materials.										
HL-SUP 5	1 HLSSUS	Implement healthcare facility standards in order to maintain high-quality healthcare facilities.										

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### **Therapeutic Services Focus Area**

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Anatomy & Physiology	Health Science	Health Science 2	Introduction to Health E	ciences Prot	iology
0305312/0305311	1400241/1400242	1400251/140025D	1/25/17	0305322/0305324	IC o

			0305312/0305311	1400241/1400242	1400251/140025P	142541x	0305322/0305321	[Course Number]				
			03053	14002	14002	14251	03053	[NCES Code]				
	Focus A	<u>ea</u> Knowledge and Skills (CTE standards)	1	1	1	0.5	1	[# of Credits]				
сстс*	Code Number	KS Statement	Υ	Υ	Υ	Υ	Y03053	[TSAY or N?]				
LI TUD 1	LI TS01	Utilize communication strategies to answer patient/client questions and										
Conce	concerns on planned procedures and goals.	X	Χ	Χ	Χ							
HL-THR 2	HLTS02	Communicate patient/client information among healthcare team										
TIL-TITIK Z	1111302	members to facilitate a team approach to patient care.	X	X	Χ	X						
		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.			Χ							
HL-THR 4	HLTS04	Evaluate patient/client needs, strengths and problems in order to										
HL-THK 4	HL1304	determine if treatment goals are being met.										