

2019

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 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.

			Anatomy & Physiology	Health Science 1	Health Science 2	Introduction to Health Sciences Profes-	Human Anatomy & Physiology					
			0305312/0305311	1400241/1400242	1400251/140025P	142541x	0305322/0305321	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]
			03053	14002	14002	14251	03053	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]
Cluster Knowledge and Skills (CTE standards)			1	1	1	0.5	1	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
CCTC*	Code Number	KS Statement	Y	Y	Y	Y	Y03053	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]
HL 1	HL01	Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career.	X	X	X	X	X					
HL 2	HL02	Explain the healthcare worker's role within their department, their organization, and the overall healthcare system.		X	X	X						
HL 3	HL03	Identify existing and potential hazards to clients, co-workers, visitors, and self in the healthcare workplace.		X	X	X						
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.		X	X	X						
HL 5	HL05	Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.		X	X	X						
HL 6	HL06	Evaluate accepted ethical practices with respect to cultural, social and ethnic differences within the healthcare workplace.		X	X	X						

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Biotechnology, Research & Development Focus Area

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			03053	14002	14002	14251	03053	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]
			1	1	1	0.5	1	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
Focus Area Knowledge and Skills (CTE standards)			Y	Y	Y	Y	Y03053	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]
CCTC*	Code Number	KS Statement										
HL-BRD 1	HLBR01	Summarize the goals of biotechnology research and development within legal and ethical protocols.			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.										
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.										
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	HLBR05	Determine processes for product design and production and how that work contributes to an understanding of the biotechnology product development process.										
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							

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Health Diagnostics Focus Area

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Focus Area Knowledge and Skills (CTE standards)			1	1	1	0.5	1	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
CCTC*	Code Number	KS Statement	Y	Y	Y	Y	Y03053	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]
HL-DIA 1	HLDG01	Communicate key diagnostic information to healthcare workers and patients in an accurate and timely manner.	X		X		X					
HL-DIA 2	HLDG02	Assess and report patient's/client's health status in order to monitor and document patient progress.			X							
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.			X							
HL-DIA 5	HLDG05	Select, demonstrate and interpret diagnostic procedures.			X							

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Health Informatics Focus Area

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Health Support Services Focus Area

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Therapeutic Services Focus Area

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