



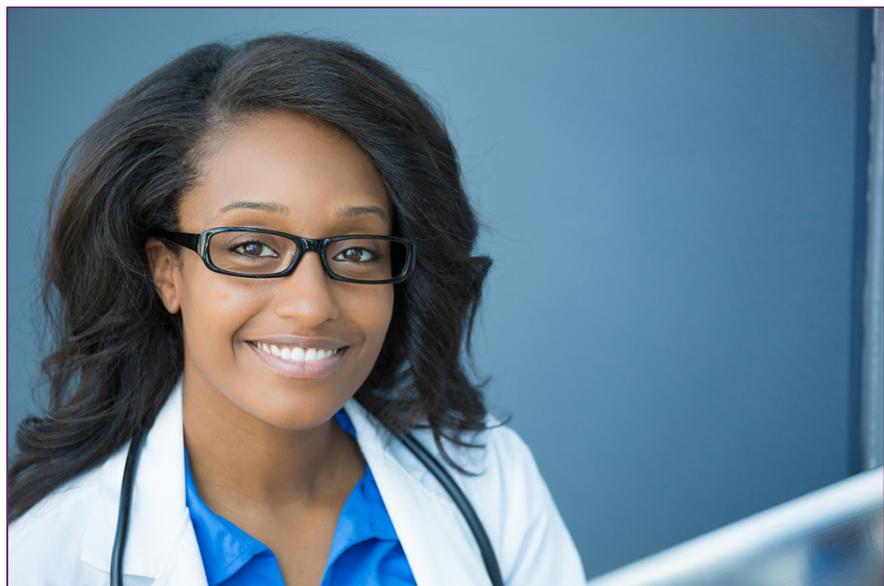
Health Science Career Cluster (HL)

1. Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career.
2. Explain the healthcare worker's role within their department, their organization, and the overall healthcare system.
3. Identify existing and potential hazards to clients, coworkers, visitors and self in the healthcare workplace.
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.
5. Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.
6. Evaluate accepted ethical practices with respect to cultural, social and ethnic differences within the healthcare workplace.



Therapeutic Services - Patient Care Career Pathway (HL-THR)

1. Utilize communication strategies to answer patient/client questions and concerns on planned procedures and goals.
2. Communicate patient/client information among healthcare team members to facilitate a team approach to patient care.
3. Utilize processes for assessing, monitoring and reporting patient's/clients' health status to the treatment team within protocol and scope of practice.
4. Evaluate patient/client needs, strengths and problems in order to determine if treatment goals are being met.





Health Science Career Cluster (HL)

<p>HL</p> 	Standard	Performance Elements	Sample Indicators
<p>HL 1</p>	<p>Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career.</p>	<p>1. Utilize knowledge of human structure and function to conduct health care role.</p>	<ul style="list-style-type: none"> Describe the basic structures and functions of cells, tissues, organs and systems as they relate to homeostasis. Compare relationships among cells, tissues, organs and systems. Explain body planes, directional terms, quadrants and cavities. Analyze the interdependence of the body systems as they relate to wellness, disease, disorders, therapies and care rehabilitation.
		<p>2. Utilize knowledge of diseases and disorders to conduct health care role.</p>	<ul style="list-style-type: none"> Compare selected diseases/disorders including respective classification(s), causes, diagnoses, therapies and care/rehabilitation to include biotechnological applications. Analyze methods to control the spread of pathogenic microorganisms. Contrast various types of immunities. Analyze body system changes in light of diseases, disorders and wellness. Compare the aging process among the body systems.
<p>HL 2</p>	<p>Explain the healthcare worker's role within their department, their organization and the overall healthcare system.</p>	<p>1. Explain systems theory as it applies to the health care environment.</p>	<ul style="list-style-type: none"> Describe systems theory and its components. Construct a general systems model using inputs, throughputs and a feedback loop.
		<p>2. Explain the concept of system change as it applies to the health care environment.</p>	<ul style="list-style-type: none"> Analyze the cause and effect on health care system change based on the influence of technology, epidemiology, bio-ethics, socio-economics and various forms of complimentary (non-traditional) medicine.
		<p>3. Understand the existing and potential hazards to clients, co-workers and self.</p>	<ul style="list-style-type: none"> Utilize safe work practices and follow health and safety policies and procedures. Diagram the interdependence of health care professions within a given health care delivery system and pertaining to the delivery of quality health care. Design a system analysis process that evaluates these outcomes: client satisfaction, productivity, cost effectiveness and efficiency. Evaluate the impact of enhanced technology on the health care delivery system.
		<p>4. Identify and explain key systems of the health care delivery system.</p>	<ul style="list-style-type: none"> Construct a health care delivery system model. Predict where and how factors such as cost, managed care, technology, an aging population, access to care, alternative therapies and lifestyle/behavior changes may affect various health care delivery system models. Project outcomes as interconnected components of



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			a modified health care system. <ul style="list-style-type: none"> Calculate the cost effectiveness of two separate health care delivery systems using the same client procedure.
HL 3	Identify existing and potential hazards to clients, coworkers, visitors and self in the healthcare workplace.	1. Explain infection control practices and procedures.	<ul style="list-style-type: none"> Practice infection control procedures. Practice appropriate cleaning, disinfecting and sterilizing processes. Contrast medical and surgical asepsis.
		2. Demonstrate personal safety practices.	<ul style="list-style-type: none"> Manage a personal exposure incident in compliance with OSHA regulations. Apply principles of body mechanics and ergonomics. Use personal protective equipment (PPE) as appropriate to the environment.
		3. Use techniques to insure environmental safety.	<ul style="list-style-type: none"> Modify the environment to create safe working conditions. Demonstrate methods of fire prevention in the health care setting. Prevent accidents by using proper safety techniques. Practice good housekeeping by maintaining a safe work environment.
		4. Identify common safety hazards.	<ul style="list-style-type: none"> Use Materials Safety Data Sheets (MSDS). Recognize and adhere to hazardous labeling requirements. Comply with safety signs, symbols and labels. Implement appropriate action when observing a hazardous material problem. Apply safety principles within given environment. Recognize hazardous chemicals commonly used in the health care environment and utilize in an appropriate manner.
		5. Describe healthy behaviors.	<ul style="list-style-type: none"> Apply behaviors that promote health and wellness. Advocate available preventive health screening and examinations. Use practices that promote the prevention of disease and injury. Use appropriate safety practices as related to high-risk behaviors. Evaluate the validity of alternative health practices.
		6. Utilize emergency procedures and protocols.	<ul style="list-style-type: none"> Interpret the evacuation plan for the health care setting. Construct an emergency plan for a health care setting in response to a natural disaster or other emergency. Follow the facility procedure when a fire is discovered.



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<p style="text-align: center;">HL 4</p>	<p style="text-align: center;">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.</p>	<p>1. Describe team member participation.</p>	<ul style="list-style-type: none"> • Communicate verbally and nonverbally with team colleagues to assure a best result for the client. • Collaborate with others to formulate team objectives. • Identify responsible actions of team members to complete assigned tasks in a timely and effective manner. • Recognize the importance of active listening to other team members. • Exercise leadership skills as appropriate. • Respect and value the expertise and contributions of all team members. • Recognize the importance of working collaboratively with persons from diverse backgrounds to accomplish a common goal. • Apply corrective action to an acknowledged conflict situation. • Exhibit a strong sense of team identity and commitment to purpose.
		<p>2. Identify and describe health care teams.</p>	<ul style="list-style-type: none"> • Apply the team concept in providing quality patient/client care. • Recognize characteristics of effective teams. • Analyze roles of various team participants. • Formulate appropriate response to critical situations as a team member and/or leader. • Recognize the necessity of compromise to ensure the appropriate outcome.
		<p>3. Employ communication strategies used in the delivery of quality health care.</p>	<ul style="list-style-type: none"> • Identify social media technologies, electronic conferencing, Web pages and e-mail systems to communicate information to team members and colleagues. • Develop and implement security requirements for storage and transmission of electronic health records. • Train personnel on technologies, written communications and security measures for documenting, retrieval, storage and communication of health records.
<p style="text-align: center;">HL 5</p>	<p>Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.</p>	<p>1. Describe legal implications affecting health care workers.</p>	<ul style="list-style-type: none"> • Analyze legal responsibilities, limitations and implications of actions. • Use problem-solving techniques when confronted with legal dilemmas or issues. • Compare and contrast behaviors and practices that could result in malpractice, liability, or negligence. • Identify and comply with policies and requirements for documentation and record keeping. • Identify and comply with established risk management criteria and procedures.



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			<ul style="list-style-type: none"> Evaluate if an incident is reportable. Identify and comply with non-discriminatory laws. Identify and comply with institutional policy and procedures.
		2. Describe legal practices employed by health care workers.	<ul style="list-style-type: none"> Perform duties according to regulations, policies, laws and legislated rights of clients. Manage clients' rights according to the Patients' Bill of Rights. Manage confidentiality according to Health Information Portability Access Act (HIPAA). Employ practices that adhere to licensure, certification, registration and legislated scope of practice. Apply the doctrine of informed consent. Evaluate technological threats to confidentiality. Employ mandated standards for workplace safety, i.e., OSHA, CDC, CLIA. Apply mandated standards for harassment, labor and employment laws.
HL 6	Evaluate accepted ethical practices with respect to cultural, social and ethnic differences within the healthcare workplace.	1. Describe legal and ethical boundaries in health care delivery.	<ul style="list-style-type: none"> Differentiate between morality and ethics and the relationship of each to health care outcomes. Differentiate between ethical and legal issues impacting health care. Employ personal, professional and organizational ethics. Analyze legal and ethical aspects of confidentiality. Discuss bio-ethical issues related to health care. Analyze and evaluate the implications of medical ethics.
		2. Describe ethical practice as it applies to health care delivery.	<ul style="list-style-type: none"> Demonstrate professionalism when interacting with fellow students, patients/clients, co-workers and the organization. Recognize and respect interdisciplinary roles of team members. Report activities and behaviors by self and others that adversely affect the health, safety, or welfare of students, patients/clients, or co-workers. Demonstrate fairness and equal treatment of all persons. Practice responsibly within the ethical framework of the Patients' Bill of Rights. Employ clients' independence and determination in their health care.
		3. Explain cultural, social and ethnic diversity as it applies to health care delivery.	<ul style="list-style-type: none"> Discuss the impact of religions and cultures on those giving and receiving health care with an understanding of past and present events. Demonstrate respect of cultural, social and ethnic diversity within the health care environment.



Therapeutic Services - Patient Care Career Pathway (HL-THR)

<p>HL-THR</p> 	Standard	Performance Elements	Sample Indicators
<p>HL-THR 1</p>	<p>Utilize communication strategies to answer patient/client questions and concerns on planned procedures and goals.</p>	<p>1. Employ effective oral communication techniques when responding to patient questions and concerns.</p>	<ul style="list-style-type: none"> Assess patients/clients' understanding of the information provided. Demonstrate empathy for patients/clients. Construct communication appropriate to the needs of the patient/client and the situation.
		<p>2. Employ effective written communication techniques when responding to patient questions and concerns.</p>	<ul style="list-style-type: none"> Develop clearly written patient/client information and instructions. Keep written records as appropriate within facility policies and protocols.
<p>HL-THR 2</p>	<p>Communicate patient/client information among healthcare team members to facilitate a team approach to patient care.</p>	<p>1. Utilize facility protocol and regulatory guidelines for collecting patient/client health care needs, strengths and problems.</p>	<ul style="list-style-type: none"> Monitor and identify patient/client health care needs, strengths and problems. Select appropriate tools for information to be collected. Format and develop collected information. Maintain confidentiality according to facility protocol.
		<p>2. Analyze team interactions that identify effective patterns of communication among team members.</p>	<ul style="list-style-type: none"> Distinguish appropriate role and responsibilities of each team member. Respect and value the expertise and contributions of all team members. Evaluate relevancy of information to be conveyed. Formulate and report information in a way that is clear and concise.



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HL-THR 	Standard	Performance Elements	Sample Indicators
HL-THR 3	Utilize processes for assessing, monitoring and reporting patient's/clients' health status to the treatment team within protocol and scope of practice.	1. Monitor patient/client using protocols for assessing, monitoring and reporting health status.	<ul style="list-style-type: none"> Analyze and assess patient/client response. Assess need for follow-up and alternative care to treatment plan. Respond to patient/client health changes as prescribed by facility protocol. Evaluate patient/client response to administered treatments and procedures.
		2. Utilize strategies that support patient/client goals when developing treatment plans.	<ul style="list-style-type: none"> Create a treatment plan using a problem-solving model, incorporating patient/client input. Select appropriate resources to implement treatment plan. Evaluate the plan for appropriate outcomes and intervention opportunities.
		3. Implement treatment plans that adhere to facility protocols, regulatory guidelines and scope of practice.	<ul style="list-style-type: none"> Evaluate priorities in order to organize work. Use equipment and instruments according to the manufacturer's guidelines and accepted safety practice. Document actions according to facility protocol and regulatory guidelines.
HL-THR 4	Evaluate patient/client needs, strengths and problems in order to determine if treatment goals are being met.	1. Employ accepted protocols for evaluating patient/client needs, strengths and problems during treatment.	<ul style="list-style-type: none"> Identify appropriate evaluation tools to assess patient/client response to treatment plan. Analyze information gathered. Revise or create modifications to treatment plan based on patient/client response.