



2017-2018

Hospital Occupations

OUTLINE

DESCRIPTION:

This course is designed to prepare students for entry-level employment in the hospital setting. Emphasis is placed on those skills required of a health care worker in various departments of an acute care hospital setting or specific health care facility. This course will provide practical information and practice about various career opportunities in the health care field. This course is a capstone course for the Redlands High School HEART Academy. Activities in this course include work-based learning that connects students to industry and the local community. ***Hospital Occupations has been UC a-g approved to meet the elective (“g” – Laboratory Science – Biology / Life Sciences) requirement.***

INFORMATION:

- A. Pre-requisites:
 1. Proof of negative TB test within the last year.
 2. Medical Terminology
 3. B or better in ROP Medical Services Occupations
 4. Biology
 5. Algebra I
- B. Dress requirement and grooming: As required by industry standards.
- C. Length: One semester (260 hours (90 classroom, 20 related instruction, 150 CC/CCTE)
- D. Sector: Health Science & Medical Technology
- E. Pathway: Patient Care

O*Net SOC Codes	
Code #	Title
29.0000.00	Healthcare Practitioner and Technical Occupations
31.0000.00	Healthcare Support Occupations

Orientation
<ul style="list-style-type: none">A. Introduce the course and facilities.B. Discuss the syllabus and major objectives.C. Explain applicable classroom management procedures, the ROP Student Rules of Conduct, and any operational guidelines.D. Review instructor/student expectations.E. Explain enrollment and attendance requirements and procedures.F. Review grading and student evaluation procedures.G. Discuss the community classroom aspect of the program if applicable.H. Discuss the “next steps” related to additional education, training, and employment.I. Review classroom safety, emergency and disaster procedures.
1. Communication Skills
<ul style="list-style-type: none">A. Demonstrate positive verbal communication skills using appropriate vocabulary, demeanor, and vocal tone in the classroom and/or worksite.B. Read and interpret written information and directions.C. Practice various forms of written communication appropriate to the occupation.D. Practice positive body language skills.E. Practice professional verbal skills for resolving a conflict.F. Demonstrate active listening skills including techniques for checking for understanding, and for obtaining clarification of directions.
2. Interpersonal Skills
<ul style="list-style-type: none">A. Demonstrate positive teamwork skills by contributing to a group effort.B. Practice the importance of diversity awareness and sensitivity in the workplace.C. Define sexual harassment in the workplace and identify the employee’s role and responsibility.D. Practice participation skills.E. Identify different personality types and strategies for working effectively with each type.F. Practice business and social etiquette skills appropriate to the occupation.G. Discuss the role of business and personal ethics in the decision-making process.H. Evaluate various job-related scenarios and justify decisions based on ethics.I. Demonstrate flexibility and adaptability in working with others.J. Demonstrate the use of time management skills.
3. Personal and Occupational Safety

- A. Demonstrate procedures to be followed in the case of emergencies.
- B. Discuss ways to report a potential safety hazard to a supervisor.
- C. Identify and discuss cyber ethics, cyber safety, and cyber security.
- D. Apply personal safety practices to and from the job.
- E. Describe the procedure for reporting a work-related hazard or injury.
- F. Recognize the effects of substance abuse in the workplace.
- G. Explain the importance of CAL-OSHA.
- H. Define and discuss ergonomics in relation to the working environment.
- I. Discuss the electrical hazards of working with electronic equipment.
- J. Recognize the effects of substance abuse in the workplace.

4. Leadership

- A. Define leadership and identify the responsibilities, competencies, and behaviors of successful leaders.
- B. Work with peers to promote divergent and creative perspectives.
- C. Demonstrate how to organize and structure work, individually and in teams, for effective performance and the attainment of goals.
- D. Explain multiple approaches to conflict resolution and their appropriateness for a variety of situations in the workplace.
- E. Employ ethical behaviors and actions that positively influence others.
- F. Use a variety of means to positively impact the direction and actions of a team or organization.
- G. Analyze the short-term and long-term effects a leader's actions and attitudes can have on productivity, morale, and organizational culture.

5. Cardiopulmonary Therapy

- A. Prepare patients for testing.
- B. Cut and mount EKG strips/readings.
- C. Identify circulatory and respiratory anatomy and physiology.
- D. Operate EKG machine and record 12 EKG rhythm strips.
- E. Identify and report life-threatening arrhythmias.
- F. List conditions that are determined by an EKG/ECG.

6. Respiratory Therapy

- A. Demonstrate medical aseptic technique with respiratory therapy department.
- B. Identify respirations as to rate rhythm, quality, and lung sounds.
- C. Assist technicians with setups and operation of such devices as respirators, mechanical ventilators and therapeutic gas administration apparatus.

- D. Assist technicians with breathing exercises.
- E. Demonstrate sterilization/disinfection procedures for respiratory therapy equipment.

7. Emergency Medicine

- A. Demonstrate ability to handle, transport, and dispose of bio-hazardous materials.
- B. Demonstrate procedure for transfer and transporting of patients.
- C. Measure, record, and report abnormal vital signs.
- D. Identify and/or assist with various dressings and bandages.
- E. Demonstrate proficiency in CPR and First Aid.
- F. Assist with inventory, stocking, and expiration of supplies.
- G. Clean and maintain equipment and linens.
- H. Demonstrate use of equipment used in the emergency setting.
- I. Describe methods for assisting with minor surgical procedures.
- J. Demonstrate troubleshooting ability with oximeter, cardiac, and respiratory monitors.
- K. Identify and/or assist with soft tissue injuries.
- L. Identify and assist with the application of various casts and splints.

8. Hospital Central Supply

- A. Identify duties of a Central Supply/Central Processing/Material Management worker.
- B. Demonstrate procedures to disinfect equipment.
- C. Describe the difference between dirty, clean, and sterile.
- D. Assemble, wrap, and package instruments and equipment.
- E. Identify equipment/supply transported to and from the department.
- F. Describe procedures performed in the decontamination, preparation, sterilization, and inventory areas.
- G. Demonstrate the use of appropriate apparel worn in the decontamination, preparation, sterilization, and inventory areas.
- H. Demonstrate techniques for sterilizing equipment.
- I. Operate autoclaves in sterilization.
- J. Maintain and rotate inventory according to expiration dates.
- K. Maintain an accurate inventory of supplies and equipment.
- L. Fill orders from various departments.
- M. Describe proper procedures to dispose of contaminated waste.

9. Long Term Care Facility

- A. Describe patient rights.
- B. Assist with nourishments, meals, and snacks.

- C. Describe diseases associated with the aging process.
- D. Identify signs of abuse and neglect.
- E. Explain the procedures for reporting elder abuse and neglect.
- F. List and demonstrate planning activities for calendar, newsletters and resident council.
- G. Describe various social activities appropriate to resident abilities and diagnosis.
- H. Demonstrate exercises for individuals and groups.
- I. Plan games appropriate for residents.

10. Medical Administrative Assistant

- A. Schedule appointments with physician, patient testing, or hospital admissions.
- B. Admit patients to examination room and document patient chief complaints.
- C. Access information from computer and enter requested data.
- D. Assemble, process, file, and retrieve patient charts and forms.
- E. Process insurance information.
- F. Call in medication refill information.
- G. Assist in obtaining charts.
- H. Demonstrate inventory control, stocking, and ordering of supplies.
- I. Handle incoming and outgoing mail.
- J. Operate office machines such as a copy machine, fax, and computer.

11. Medical Assistant – Clinical

- A. Determine and record vital signs.
- B. Take and record patients' medical history and complaint.
- C. Prepare patient and instruments for physical examination.
- D. Assist physician with examinations.
- E. Obtain and record height and weight of infants, children, and adults.
- F. Prepare sterile tray for office surgery and assist physician.
- G. Collect and handle laboratory specimens.
- H. Perform urine dipstick test and skin puncture for hematocrit, hemoglobin, and glucose tests.
- I. Obtain and record hearing and vision tests.

12. Medical/Surgical Department

- A. Transfer and transport patients
- B. Assist with patient positioning.
- C. Maintain stock and check for expiration of supplies.

- D. Observe and report changes of post-operative patients.
- E. Identify pre-operative and post-operative patients.
- F. Identify surgical transportation methods.
- G. Identify various dressings, bandages and suture materials.
- H. Prepare and discharge patients.
- I. Perform pre-op checklist (NPO, vitals, catheter emptied, side rails up).
- J. Monitor post-op patient (frequent vital signs, turn, cough, deep breath, splint incision) and observe for abnormal signs.
- K. Describe labor and delivery set-up/breakdown including sterile fields.

13. Therapeutic Nutrition

- A. Handle food properly to assure freshness and prevent contamination.
- B. Deliver food trays and nourishments to the nursing stations.
- C. Identify the elements of various therapeutic diets.
- D. Assist with weighing and measuring nourishment to meet dietetic requirements.
- E. Check menu with tray contents and correct as necessary.
- F. Identify other methods to provide nutrition.

14. Pediatrics

- A. Describe age-specific needs of newborn, infant, and child.
- B. Diaper an infant, cleaning the perineal area correctly.
- C. Use age-appropriate toys for play therapy.
- D. Describe the proper use of cribs and isolettes.
- E. Demonstrate use of infant scale.
- F. Properly take, record, and/or graph pediatric measurements: height, weight, head circumference, and abdominal girth.
- G. Describe normal developmental tasks of the infant through adolescence.
- H. Feed and assist with feeding of children of various ages, include bottle and burping.
- I. Position infants according to developmental needs.
- J. Maintain apnea monitor, set alarm, collect data, and report findings.
- K. Monitor bilirubin light, collect data, and report findings.
- L. Bathe infant, toddler, and preschooler; assist with older children.
- M. Obtain accurate vital signs.

15. Physical Medicine

- A. Identify the musculoskeletal, nervous, cardiovascular, and integumentary systems and their dysfunctions and disorders.
- B. Perform therapeutic exercises.

- C. Assist patients with their activities of daily living.
- D. Transfer patients.
- E. Perform range of motion exercises.
- F. Assist with ambulation and ambulatory devices (e.g., gait train, guarding techniques).
- G. Provide patient education instruction.
- H. Identify and use Occupational Therapy/Adaptive equipment.
- I. Assist with feeding techniques for the debilitated patient.
- J. Instruct and assist patients in transferring during ADLs.
- K. Turn and position patients.
- L. Perform various physical therapy modalities.

16. Pharmacology

- A. Transport medications and/or medication orders.
- B. Accurately interpret medication orders.
- C. Accurately calculate drug dosages including tablets, liquids, and injections.
- D. Identify common medication names, doses, routes, and side effects.
- E. Prepare inventory and stock supplies and medication.
- F. Verify medication refill information.
- G. Accurately mix and measure liquid medications.
- H. Demonstrate the methods used to reconstitute oral medications.

17. Radiology

- A. Describe safety/radiation exposure precautions associated with radiology.
- B. Assist with patient positioning for radiology procedures.
- C. Properly handle film cassettes.
- D. Explain radiation oncology.
- E. Describe the purpose of diagnostic ultrasound.
- F. Identify specialty procedures.
- G. Explain uses for nuclear medicine and PET scans.
- H. Describe the purpose of CAT scans and MRIs.
- I. Position patients and use immobilization/supportive devices for radiology studies.
- J. Assist with cleaning and maintaining radiology equipment.
- K. Assist with preparing supply requests and storing received items.
- L. Explain methods for transportation and transferring of patients.

18. Dental Department

- A. Read and chart dental findings on both anatomical and geometric style charts with different tooth numbering systems.
- B. Describe the importance of patient, medical, and dental histories.
- C. Describe scheduling considerations in relation to patient profile, repetitive procedures, and daily production.
- D. Correctly completes an appointment card and daily schedule.
- E. Chart conditions of teeth using anatomical diagrams, correct protocol, and the universal numbering system.

Key Assignments

Assignment	Competencies	Career Ready Practices	Anchor Standards	Pathway Standards	CCSS
1. Students will demonstrate the proper technique for preparation of a patient for an EKG by correctly completing "Preparation of Patient Protocol Sheet" and administering a complete EKG. Operating a 12-lead electrocardiogram machine, students will correctly record 12EKG rhythm strips on fellow students. Students will mount EKG strips and analyze the cardiac cycle on predetermined leads to determine if the readings fall within normal ranges.	1A-F 2A, B, E, H-J 5A-F 7B, C 8B 10B, C, G, H 11A, B	1 2 5 8	2 5	B 5.0 B 6.0 B 7.0	LS 11-12.6 LS 11-12.6 RLST 11-12.4 WHSST 11-12.4
2. Demonstrating OSHA standards and protocol, students will sanitize, wrap, and sterilize common supplies and equipment used in a health care facility.	1B 6A, E 7I 8A-K, M 11F 12K 14D 16A	1 4 5	2 5 6 9	B 5.0 B 10.0 B 11.0	LS 11-12.6 RLST 11-12.3 RLST 11-12.4 SLS 11-12.1b
3. Using case studies, students will accurately interpret various medical procedures and findings and correctly communicate information to patients and/or medical staff members.	1A-C, F 6B 7I 9A, C 10A, D, E 11C, D 12H 13C 14N 15A 16C-E	1 2 8 9 10 11	2 4 5 9	B 2.0 B 3.0 B 5.0	LS 11-12.6 LS 11-12.1 LS 11-12.2 LS 11-12.3 LS 11-12.4 RSIT 11-12.4 RLST 11-12.1 RLST 11-12.9 SLS 11-12.1

Assignment	Competencies	Career Ready Practices	Anchor Standards	Pathway Standards	CCSS
	17F-I, K 18A				SLS 11-12.1b WS 11-12.4 WS 11-12.6 WS 11-12.7 WHSST 11-12.4 WHSST 11-12.6
4. Students will achieve American Heart Association certification for CPR and First Aid.	1A, C, D, F 7D, E, K 11A		2 5 6 10	B 2.0 B 4.0 B 6.0 B 7.0 B 8.0	LS 11-12.6 RSIT 11-12.4 RLST 11-12.3 RLST 11-12.4
5. Using a variety of scenarios, students will operate a mock medical clinic.	1A- F 2A-J 8B-D, F, G, H 10A-D, I 11A- I 14A, B, E, F, P 15F 16A-C	1 2 4 5 8 9 10 12	2 5 6 8 9 10	B 4.0 B 5.0 B 6.0 B 7.0 B 10.0	LS 11-12.6 LS 11-12.1 RLST 11-12.3 RLST 11-12.4 SLS 11-12.1b SLS 11-12.1d WS 11-12.4 WS 11-12.6
6. Given an assigned procedure, students will prepare a patient and room for a minor surgical procedure.	1A-F 3A, B, D, H 7A	1 2	2 5	B 6.0 B 7.0	RLST 11-12.3 RLST 11-12.4

Assignment	Competencies	Career Ready Practices	Anchor Standards	Pathway Standards	CCSS
	8B, C, D, H, I 11C, E-G 12A, E, F, I, K	5 8 9	6 7 9	B 10.0	SLS 11-12.1 SLS 11-12.1b WHSST 11-12.9
7. In teams, students will research and present information pertaining to an assigned Human Growth and Developmental life stage.	1A-D, F 2A-C, E, F 9A, C, E-G 10J 14A, C, F, G	2 5 9 10 11	2 4 5 7 9	B 2.0	LS 11-12.6 LS 11-12.1 LS 11-12.2 SLS 11-12.1 SLS 11-12.1b WS 11-12.4 WS 11-12.6 WS 11-12.7 WHSST 11-12.6 WHSST 11-12.4
8. Students will operate a mock hospital medical/surgical department.	1A-F 2A-C, F-J 9B 12A-K 13A, B, E	1 2 5 6 8 9 10 12	2 5 6 9	B 4.0 B 5.0 B 6.0 B 7.0 B 8.0 B 10.0	LS 11-12.6 LS 11-12.2 LS 11-12.3 RLST 11-12.3 RLST 11-12.4 SLS 11-12.1b WS 11-12.4 WS 11-12.7 WHSST 11-12.4

Assignment	Competencies	Career Ready Practices	Anchor Standards	Pathway Standards	CCSS
9. Given a specific medical diagnosis, students will prepare a week-long nutrition plan for a patient, analyzing nutritional needs and determining the nutritional values of the food available. Students will present and defend the food plan to the class, supporting their choices with references to qualified sources.	1B 13B, C 14H	2 6 10 11	2 4 5 6	B 9.0	LS 11-12.6 RLST 11-12.9 RLST 11-12.4 WHSST 11-12.9 WS 11-12.6 WS 11-12.7
10. In coordination with licensed Physical Therapists and/or university students, students will perform various physical therapy modalities in a mock physical therapy clinic.	1A-D, F 2A-J 15A-L	1 2 5 6 8 9 10 12	2 5 6 9 10	B 6.0 B 7.0 B 8.0 B 10.0	LS 11-12.1b LS 11-12.6 RLST 11-12.4 SLS 11-12.1b
11. Students will complete an internship program at a local health care facility.	All	1-10, 12	2 5 6 7 8 9 10	B 3.0 B 4.0 B 6.0 B 7.0 B 8.0	LS 11-12.6 LS 11-12.1 LS 11-12.3 RLST 11-12.4 SLS 11-12.1 SLS 11-12.1d WS 11-12.6

<p>12. Students will accurately interpret medication orders, correctly transport medications and manage a medication/medical supply inventory.</p>	<p>1A- F 16A-E</p>	<p>1 2</p>	<p>2 5 6</p>	<p>B 3.0 B 5.0</p>	<p>LS 11-12.6 LS 11-12.1 NQ-2 NQ-3 RLST 11-12.4 WS 11-12.6</p>
<p>13. Students will accurately read a dental chart and document new findings.</p>	<p>18A-C</p>	<p>1 2 4 6</p>	<p>2 5 6</p>	<p>B 3.0 B 6.0</p>	<p>LS 11-12.4 LS 11-12.6 RLST 11-12.4 WS 11-12.7</p>
<p>14. Students will provide patient education relating to proper dental hygiene.</p>	<p>18A-C</p>	<p>1 2 4 6</p>	<p>2 10</p>	<p>B 6.0 B 9.0</p>	<p>LS 11-12.6 LS 11-12.3 RLST 11-12.9 WHSST 11-12.4 WS 11-12.6 WS 11-12.8</p>

Standards Assessed in this Program

Career Ready Practices

1. Apply appropriate technical skills and academic knowledge.
2. Communicate clearly, effectively, and with reason.
3. Develop an education and career plan aligned to personal goals.
4. Apply technology to enhance productivity.
5. Utilize critical thinking to make sense of problems and persevere in solving them.
6. Practice personal health and understand financial well-being.
7. Act as a responsible citizen in the workplace and the community.
8. Model integrity, ethical leadership, and effective management.
9. Work productively in teams while integrating cultural/global competence.
10. Demonstrate creativity and innovation.
11. Employ valid and reliable research strategies.
12. Understand the environmental, social, and economic impacts of decisions.

Anchor Standards

2.0 Communications

- Acquire and use accurately sector terminology and protocols at the career and college readiness level for communicating effectively in oral, written, and multimedia formats.

3.0 Career Planning and Management

- Integrate multiple sources of career information from diverse formats to make informed career decisions, solve problems, and manage personal career plans.

4.0 Technology

- Use existing and emerging technology, to investigate, research, and produce products and services, including new information, as required in the sector workplace environment.

5.0 Problem Solving and Critical Thinking

- Conduct short, as well as more sustained, research to create alternative solutions to answer a question or solve a problem unique to the sector using critical and creative thinking, logical reasoning, analysis, inquiry, and problem-solving techniques.

6.0 Health and Safety

- Demonstrate health and safety procedures, regulations, and personal health practices and determine the meaning of symbols, key terms, and domain-specific words and phrases as related to the sector workplace environment.

7.0 Responsibility and Flexibility

- Initiate, and participate in, a range of collaborations demonstrating behaviors that reflect personal and professional responsibility, flexibility, and respect in the sector workplace environment and community settings.

8.0 Ethics and Legal Responsibilities

- Practice professional, ethical, and legal behavior, responding thoughtfully to diverse perspectives and resolving contradictions when possible, consistent with applicable laws, regulations, and organizational norms.

9.0 Leadership and Teamwork

- Work with peers to promote divergent and creative perspectives, effective leadership, group dynamics, team and individual decision making, benefits of workforce diversity, and conflict resolution.

10.0 Technical Knowledge and Skills

- Apply essential technical knowledge and skills common to all pathways in the sector following procedures when carrying out experiments or performing technical tasks.

Pathway Standards

Health Science and Medical Technology- Patient Care Pathway

B 2.0: Understand the basic structure and function of the human body and relate normal function to common disorders.

B 3.0: Know how to apply mathematical computations used in healthcare delivery system.

B 4.0: Recognize and practice components of an intake assessment relevant to patient care.

B 5.0: Know the definition, spelling, pronunciation, and use of appropriate terminology in the healthcare setting.

B 6.0: Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns.

B 7.0: Apply observation techniques to detect changes in the health status of patients.

B 8.0: Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients.

B 9.0: Implement wellness strategies for the prevention of injury and disease

B 10.0: Comply with protocols and preventative health practices necessary to maintain a safe and healthy environment for patients, healthcare workers, coworkers, and self within the healthcare setting.

B 11.0: Comply with hazardous waste disposal policies and procedures, including documentation, to ensure that regulated waste is handled, packaged, stored, and disposed of in accordance with federal, state, and local regulations.

Common Core State Standards

ENGLISH LANGUAGE ARTS

Language Standards

LS 11-12.6: Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the (career and college) readiness level, demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

LS 11-12.1: Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.

LS 11-12.2: Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

LS 11-12.3: Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

LS 11-12.4: Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grades 11–12 reading and content, choosing flexibly from a range of strategies.

Reading Standards for Literacy in Science and Technical Subjects

RLST 11-12.1: Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes to any gaps or inconsistencies in the account.

RLST 11-12.3: Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.

RLST 11-12.4: Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.

RLST 11-12.8: Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.

RLST 11-12.9: Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.

Reading Standards for Information Text

RSIT 11-12.4: Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze how an author uses and refines the meaning of a key term or terms over the course of a text (e.g., how Madison defines *faction* in *Federalist* No. 10). (See grade 11/12 Language standards 4-6 on page 46 for additional expectations.)

RSIT 11-12.7: Integrate and evaluate multiple sources of information presented in different media or formats (e.g., visually, quantitatively) as well as in words in order to address a question or solve a problem.

Speaking and Listening Standards

SLS 11-12.2: Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions, and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.

SLS 11-12.1: Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners, building on others ideas and expressing their own clearly and persuasively.

SLS 11-12.1b: Work with peers to promote civil, democratic discussions and decision making, set clear goals and deadlines, and establish individual roles as needed.

SLS 11-12.1d: Respond thoughtfully to diverse perspectives, synthesize comments, claims and evidence made on all sides of an issue, resolve contradictions when possible, and determine what additional information or research is required to deepen the investigation or complete the work.

Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects

WHSST 11-12.4: Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

WHSST 11-12.6: Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.

WHSST 11-12.9: Draw evidence from informational texts to support analysis, reflection, and research.

Writing Standards

WS 11-12.4: Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

WS 11-12.6: Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback including new arguments and information.

WS 11-12.7: Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem, narrow or broaden the inquiry when appropriate, synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.

WS 11-12.8: Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation including footnotes and endnotes.

MATHEMATICS

Number and Quantity

NQ-2: Define appropriate quantities for the purpose of descriptive modeling.

NQ-3: Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.

A-G Approved Key Assignments

1. In teams, research and submit to a class blog about the primary controllable and uncontrollable factors that put one at greater risk for developing heart disease. Include lifestyle choices that encourage and support good cardiovascular health.
2. Demonstrate medical aseptic techniques with respiratory equipment and patients, including sterilization/disinfection procedures for respiratory therapy equipment.
3. Measure, describe, and record the rate, rhythm, quality, and lung sounds of fellow students.
4. Investigate and produce a one page informational flier describing the etiology, symptoms, prognosis, and treatments of a respiratory disease.
5. Submit reactions on class blog to the following prompt: "Should the public pay for the care of people who willfully choose to harm their respiratory health?"
6. Demonstrate proper procedure for donning personal protective equipment.
7. Debate - "Should American citizens be allowed back into the country after they have been exposed to a highly infectious disease?" 1-2 page reflection paper after debate.
8. Contribute to an electronic dialogue on what personal and professional concerns health care professionals may face when being required to treat patients with highly infectious diseases.
9. Present on legislation that impacts the health care of elderly patients.
10. Research the impact of the aging population on the health care systems in countries around the world.

11. Research the impact of cultural diets and the diseases prevalent in those societies. Present electronically.
12. 2-3 page paper- "Who is to blame for childhood obesity?" Site resources. Discuss in class.
13. Observe a special needs program, documenting the interaction between students, teachers, and other members of the group to identify effective methods of communication and instruction, and how physical limitations are addressed to accomplish tasks.
14. In teams of two, identify and research an ethical issue in Physical Therapy. Develop and present an electronic presentation to class identifying the issue, the impact of the issue, and the consequences.
15. Students will present information on popular medications (non-controlled substances). Presentations will include information on indications, contra indications, dosage forms, dosage strengths, side effects, and other pertinent information. Students will acquire and use accurately domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level.
16. Given a set of scenarios, students will accurately calculate the method of administration and dosages of prescribed medications.
17. Translate a report from a radiologist into layman's terms.
18. Position paper - "Do X-rays cause cancer?" Site sources. Discuss in class.
19. Develop a presentation to a patient and their family describing the risks and benefits of an assigned imaging technique.