# Orange Public Schools Office of Innovation

## **Emergency and Clinical Care**



Board Approval Date: November 9, 2021

**Emergency and Clinical Care** 

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"GOOD TO GREAT"

Revised: 8/17/21

#### Emergency and Clinical Care Grade 12

**Course Description**: Emergency and Clinical Care is a course that describes how to respond to emergencies before medical help arrives. The course is designed to give the student the knowledge of how to recognize and respond to an emergency. The intent of the course is to help the student feel more confident in his/her ability to act appropriately in the event of an emergency. Students are prepared to 1) obtain a patient's medical history, 2) take and record vital signs relative to medical/dental treatment, and 3) acquire cardiopulmonary resuscitation certification.

#### **Scope and Sequence**

Timeline	Concepts	
Marking Period 1	Unit 1: Introduction, Action and Assessment: Action in an Emergency	
(15 class periods; 41 minutes per period)	Introduction to Emergency Care and Emergency Service Agencies	
	<ul> <li>Finding out What's Wrong</li> </ul>	
	Unit 2: CPR, AED and Shock	
(20 class periods; 41 minutes per period)	Cardiopulmonary resuscitation	
	Automated External Defibrillation	
	• Shock	
	Unit 3: Bleeding, wounds and burns	
(20 class periods; 41 minutes per period)	• Bleeding	
	Wounds	
	• Burns	
Marking Period 2	Unit 4: Injuries	
(15 class periods; 41 minutes per period)	Head and Spinal Injuries	
	Chest, Abdominal and Pelvic Injuries	
	<ul> <li>Bone, Joint, and Muscle Injuries</li> </ul>	
	Extremity Injuries	
	Unit 5: Sudden Illness and Poisons	
(15 class periods; 41 minutes per period)	• Sudden Illnesses	
	<ul> <li>Poisoning and Misuse of Substances</li> </ul>	
	Bites and Stings	
	Unit 6: Exposure and Rescue	
(15 class periods; 41 minutes per period)	Cold-Related Emergencies	
	Heat-Related Emergencies	
	Rescuing and Moving Victims	
	<ul> <li>Mental Illness and Abuse</li> </ul>	

Universal Instructional	Multi-Tiered System of Supports/ Differentiation and UDLG=Universal Design for	
Strategies Used in All Units	Learning Guide:	
of this Course	Special education students:	
Activities: Including G/T, SE, and ELL Differentiation	Adhere to all modifications and health concerns stated in each Individualized Educational Plan (IEP).	
	D-1: Provide clear and concise instructions. Provide consistency of structure. Provide fair and challenging assessments. Provide scaffolding of assignments to encourage engagement of all levels.	
	UDLG 2.1 Clarify vocabulary and symbols	
	D-2: Provide additional time for the completion of tasks. Allow written work to include phrases or short sentences. Encourage on task behavior. Read directions to students.	
	Give students a MENU option, allowing students to pick assignments from different levels based on difficulty.	
	UDLG 5-Provide options for expression and communication.	
	D-3: Modify Unit content to meet student ability. Provide pictorial or graphic representation on the content area.	
	Use the NEWSELA software, which can revise the reading Lexile level to meet students at current reading level.	
	Accommodating Instructional Strategies, Reading Aloud, Graphic Organizers, Reading Study Guides, one-on-one instruction, class website (Google Classroom), Handouts, Definition List, Syllabus, Large Print, Outlines.	
	Utilize Snap-n-Read and Co-writer.	
	D-4: Reduce the number of questions that need to be answered on assignments and tests.	
	D-5: Provide one-step commands when applicable. Allow students to answer orally when applicable.	
	D-7: Use positive reinforcement for work completed.	
	English Language Learners (ELL) students:	
	Use the Britannica launch pack software; give students the option to change the language of the article to the student's native language for most articles.	
	D-ESL-1. Provide students with translations of key terms prior to presenting each chapter. Encourage student use of dictionaries.	
	Snap and Read Google extension addition. It will be read to the student in the language selected.	

D-ESL-2. Allow for longer pauses when asking questions and encourage students to restate what was said in their own words.

Vocabulary Spelling City word banks.

Use visuals whenever possible to support classroom instruction and classroom activities.

UDLG 5-Provide options for expression and communication.

D-6: Provide flexible groupings based on student abilities and languages spoken.

Teacher modeling and written instruction for every assignment.

UDLG 2.4-Promote understanding across languages.

#### At risk of failure students:

Give students a MENU option, allowing students to pick activities based on interests that address the objectives and standards of the unit.

UDLG 5-Provide options for expression and communication.

Modified Instructional Strategies, Reading Alouds, Graphic Organizers, Reading Study Guides, small learning group instruction, class website (Google Classroom), Syllabus, inclusion of more visuals and films, Field Trips, Google Expeditions, Peer Support, one-on-one instruction.

D-SLD-1. Encourage students to maintain a daily log that describes their academic performance, what activities they worked on in class.

D-SLD-2. Provide students with structured questions that they will be successful in answering.

Constant parental contact and mandatory tutoring appointments.

Academic contracts.

UDLG 7.3-Minimize threats and distractions

#### Gifted and Talented students:

Modified Instructional Strategies, Socratic Seminar, Group discussion, Think-Pair-Share, Individual assignments graded on a more rigorous rubric, Multimedia Projects, working with more primary source documents and completing Case Studies.

Student led classroom instruction and Project Based Learning.

UDLG 8.2-Vary demands and resources to optimize challenge

UDLG 9.4-Develop self-assessment and reflection.

#### Students with a 504:

Adhere to all modifications and health concerns stated in 504 plans. Then assess the academics of the student to implement the necessary modifications as described in this document.

Utilize Snap-n-Read and Co-writer.

#### <u>Syllabus</u>

Teacher creates and distributes an overview of the course to students and parents at the beginning of the course.

#### Student-Self Assessment: Bio-Poem

#### Socratic seminar/group classroom discussion:

Divide the class into groups of three or four, and instruct each on the parameters of their assignment.

#### Games: Quizlet

Games used to reinforce key medical terms and also serve as study guides.

#### **Individual Contracts**

The teacher gives each student a list of tasks to complete that are based on their ability level. As students work to complete all tasks, they also work with other students who also need remediation on the same skill or concept.

#### <u>Video</u>

Video clips can be used to enhance learning of the topic area.

#### Homework and Practice

Homework and Practice will be assigned to give students extra practice with skills or concepts that have already been presented or demonstrated. Typical Homework and Practice will entail reading the chapter and creating an outline or answering the objectives at the beginning of chapter.

#### Summarizing and Note Taking

Student summarizes information presented by teacher or classmates.

#### Silent reading, Read Aloud, Jigsaw or Read and Respond

#### Independent Study

Students are given the opportunity to investigate a project independently with guidance and support from the teacher.

#### Note booking/Journaling writing assignments in Google Classroom/Reinforcing Efforts

Students keep a journal that allows them to reflect on the content they are learning throughout the unit. Students make connections to what they have learned, set goals, and reflect on what they have learned. Students may also ask questions they still have about the content. Teacher to reflect bi-weekly in student's journals, providing positive recognition and answer questions and concerns.

#### Exit Ticket: Journal Entry: 3-2-1

Students will write three key terms learned, two ideas they'd like to learn about, and one mastered skill.

#### Free Write and Share

Students write in response to a stimulus (topic or question oriented), then share their writing with the class.

#### <u>Lecture: 5 + 1</u>

Teacher transmits information with the use of audio visuals for five minutes; students summarize and reflect on information for one minute.

Direct Instruction, Lecture

Accountable talk

<u>Word Wall</u>

Reciprocal teaching or peer teaching and collaboration

Role play/simulations/hands on learning and guest speakers

ARES: Model, practice and perform skills learned on ARES manikin, vital signs

Anatomage Table-Practice knowledge of human diseases

Conferencing one-on-one with student at least once per making period

**Reinforcing effort and targeted feedback** 

Effective Questioning

**<u>QFT-Question Formulation Technique or Free Write and Share:</u>** 

Provide students with a stimulus, topic or assignment. Ask them to write down as many questions as possible without discussion. Share, Reflect

Student Goal Setting / Behavior Change Portfolio

	<u>Student Organization Participation</u> Student organizations (career and technical) can be an integral component of a health program. A student organization is an excellent vehicle for providing leadership development and technical reinforcement for this instructional program content. Health Occupations Students of America (HOSA) is the official recognized organization for those enrolled in the Rutgers, SHRP health science courses of study.
	Simulations/Hands-on Learning/Identifying similarities and differences: Anatomage
Universal Learning Activities Used in All Units:	Table:Independent work or in groups of two, the student will perform an assignment for theSimulations-Anatomage Table which can consist of:-View one of the 600 clinical cases and 3D image as per student interest or class topicof the week. Review medical notes. Record medical terms that are not understoodand look up definitions. Record summary of the patient, pathology results anddiagnosisQuiz mode- test knowledge-Full Annotations-determine body system as per student interest or class topic of theweek; display section, determine name of a part, press on part to determine ifcorrectInteractive cutting and segmentation-using tools practice dissection and viewinternal structures of body part of choice or body part related to class discussions ofthe week.
	-View gross anatomy of one of the four cadavers of student's choice. Record observations
	-View regional anatomy of the student's choice. Record observations.
	The above assignment will be followed up with a log/journal entry in google classroom.
	<b><u>Reinforcing Efforts</u></b> Students keep a journal that allows them to reflect on the content they are learning throughout the unit. Students make connections to what they have learned, set goals, and reflect on what they have learned. Students may also ask questions they still have about the content. Teacher to reflect bi-monthly in student's journals, providing positive recognition and answer questions and concerns.
	<b>Gallery Walk</b> Students explore multiple texts or images that are placed around the room. This strategy will be used to have students share their work with peers, examine multiple historical documents, or respond to a collection of quotations. Silently record feedback on sticky notes with either praise, question or polish.
	<u>Student Goal Setting</u>
	Student self-assessment: Inventories or surveys
	<u>Charrette:</u>

This technique is used for students to share their work with a partner to gain feedback prior to the final product. Presenter presents project ideas and driving questions while the partner is quiet (3 min.). Framing question-Presenter asks a specific question to frame the feedback (1 min.). Feedback-Partner gives suggestions. Presenter listens. Feedback needs to be helpful, specific and kind (2 min.). Open discussion-Dialogue with both suggestions and feedback. (2min). Total =8 min. <u>Panel Presentation and Critique</u> When possible, present to a panel of experts or to peers to gain suggestions and
critique on work presented or created.

Unit 1	Introduction Action and Accordments Action in an Empropriate	Crada(c)	12			
	Introduction, Action and Assessment: Action in an Emergency	Grade(s)	12			
Overview/Rationale						
	The focus of this unit is on understanding the first aid to take in emergency agencies. Students will also learn safety precautions to prevent accidents.					
New Jersey Student	New Jersey Student Learning Standards					
-						
	termine academic subject matter, in addition to high school graduation rog a health science career	equirements, n	ecessary			
	entify existing and potential hazards to clients, co-workers, visitors and se	alf in the health	care			
workplace.	shiriy existing and potential nazarus to clients, co-workers, visitors and se	in the nearth	care			
-	alyze the legal and ethical responsibilities, limitations and implications of	f actions within	the			
healthcare v						
	1.1 Demonstrate effective communication skills (e.g., writing, speaking , I	istening and no	onverbal			
communica	tion) while utilizing communications equipment and platforms common t	to emergency a	nd fire			
managemer						
	1.2 Manage an incident scene as the first responder using emergency res		_			
	1.4 Demonstrate an understanding of the objectives and a commitment t and fire management services.	o the mission o	ıf			
• 9.3. LW-EFN	1.5 Execute safety procedures and protocols associated with local state a	nd federal regu	lations.			
<ul> <li>9.3. LW-EFN</li> </ul>	1.7 Describe the legal regulatory and organizational guidelines governing	emergency and	d fire			
managemer						
	1.9 Execute protocols for handling emergency situations that range from	minor medical	and fire			
-	s to area-wide incidents.					
	1.10 Demonstrate the use and various applications of the equipment con and fire management convices	imonly used in				
	and fire management services.					
	ife Literacies, and Key Skills	1	•.			
	1: Compare and contrast the role of philanthropy, volunteer service, and	charities in com	imunity			
	nt and quality of life in a variety of cultures.					
	2: Summarize causes important to you and compare organizations you se	ek to support to	o other			
U U	ns with similar missions					
	3: Research companies with corporate governance policies supporting the	e common good	d and			
human right	IS.					
• 9.2.5.CAP.3	: Identify qualifications needed to pursue traditional and non-traditional	careers and occ	upations.			
• 9.2.5.CAP.4	: Explain the reasons why some jobs and careers require specific training,	skills, and cert	ification			
(e.g., life gu	ards, child care, medicine, education) and examples of these requiremen	ts.				
• 9.2.8.CAP.9	: Analyze how a variety of activities related to career preparation (e.g., vo	olunteering,				
apprentices	hips, structured learning experiences, dual enrollment, job search, schola	arships) impacts	S			
postseconda	ary options.					
• 9.2.12.CAP.	2: Develop college and career readiness skills by participating in opportur	nities such as st	ructured			
	periences, apprenticeships, and dual enrollment programs.					
• .	6: Identify transferable skills in career choices and design alternative care	er plans based	on those			
skills.	,	P 1012 20000				
• 9.2.12.CAP.	7: Use online resources to examine licensing, certification, and credential	ling requiremen	its at the			
local, state,	and national levels to maintain compliance with industry requirements in	n areas of caree	er interest.			
• 9.4.12.Cl.1:	• 9.4.12.Cl.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1.					

12prof.CR3a).

- 9.4.12.Cl.2: Identify career pathways that highlight personal talents, skills, and abilities (e.g., 1.4. 12prof.CR2b, 2.2.12.LF.8).
- 9.4.12. CT.1: Identify problem-solving strategies used in the development of an innovative product or practice (e.g., 1.1. 12acc.C1b, 2.2.12. PF.3).
- 9.4.12. CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving (e.g., 1. 3E.12profCR3.a).
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.
- CRP5. Consider the environmental, social and economic impacts of decisions.
- CRP6. Demonstrate creativity and innovation.
- CRP7. Employ valid and reliable research strategies.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP9. Model integrity, ethical leadership and effective management.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP12. Work productively in teams while using cultural global competence.

Technology/Computer Science and Design Thinking Interdisciplinary Standards		
8.1.12.A.1 Create a personal digital portfolio which reflects	NJSLSA.R1: Read closely to determine what the text says	
personal and academic interests, achievements, and	explicitly and to make logical inferences and relevant	
career aspirations by using a variety of digital tools and	connections from it; cite specific textual evidence when	
	writing or speaking to support conclusions drawn from	
resources.	the text.	
8.1.12. D.1 Demonstrate appropriate application of	the text.	
copyright, fair use and/or Creative Commons to an original	NJSLSA.R4: Interpret words and phrases as they are	
work.	used in a text, including determining technical,	
WOIK.	connotative, and figurative meanings, and analyze how	
9.4.12.TL.1: Assess digital tools based on features such as	specific word choices shape meaning and tone.	
accessibility options, capacities, and utility for	specific word choices shape meaning and tone.	
accomplishing a specified task (e.g., W.11-12.6.).	NJSLSA.W4. Produce clear and coherent writing in which	
	the development, organization, and style are	
9.4.12.TL.4: Collaborate in online learning communities or	appropriate to task, purpose, and audience.	
social networks or virtual worlds to analyze and propose a	appropriate to task, purpose, and addrence.	
resolution to a real-world problem.	NJSLSA.W5. Develop and strengthen writing as needed	
	by planning, revising, editing, rewriting, or trying a new	
	approach.	
	a ferre a serre	
	NJSLSA.W6. Use technology, including the Internet, to	
	produce and publish writing and to interact and	
	collaborate with others.	
	RI.11-12.1. Accurately cite strong and thorough textual	
	evidence, (e.g., via discussion, written response, etc.), to	
	support analysis of what the text says explicitly as well	
	as inferentially, including determining where the text	
	leaves matters uncertain.	
	RI.11-12.2. Determine two or more central ideas of a	
	text, and analyze their development and how they	

		obje Scie	eract to provide a complex analysis; provide an ective summary of the text. ence HS-LS1-3. Plan and conduct an investigation to vide evidence that feedback mechanisms maintain
			neostasis.
		com	LS4-1. Communicate scientific information that nmon ancestry and biological evolution are ported by multiple lines of empirical evidence.
		for	LS4-4. Construct an explanation based on evidence how natural selection leads to adaptation of pulations.
		red	LS2-7. Design, evaluate, and refine a solution for ucing the impacts of human activities on the ironment and biodiversity.
		beh	LS2-8. Evaluate the evidence for the role of group avior on individual and species' chances to survive reproduce.
		HS-I	LS4-1. Communicate scientific information that
		com	nmon ancestry and biological evolution are
		sup	ported by multiple lines of empirical evidence.
		incl defi eme	Ith 2.1.12.D.6 Demonstrate first-aid procedures, uding Basic Life Support and automatic external brillation, caring for head trauma, bone and joint ergencies, caring for cold and heat injuries, and ponding to medical emergencies.
	21 <sup>st</sup> Century Skills: C	heck	
	Civic Literacy	Х	Communication
	Global Awareness	X	Critical Thinking and Problem Solving
Х	Health Literacy	Х	Collaboration
	Financial, Economic, Business, & Entrepreneurial Literacy	Х	Creativity and Innovation
	Environmental Literacy		Other:
Esse	ential Question(s)		
	<ul> <li>How does early intervention impact a medical emerge</li> <li>How do emergency action skills impact a career?</li> <li>How do you apply first aid in an emergency event?</li> </ul>	gency	vevent?
End	Enduring Understandings		
	<ul> <li>The main focus in dealing with emergencies are hand</li> </ul>	Hing	the immediate crisis, preventing further harm or

• The main focus in dealing with emergencies are handling the immediate crisis, preventing further harm or injury, and providing security and comfort until help arrives.

- The basic rules of first aid include remaining calm, providing reassurance, and not moving the person unless absolutely necessary to protect the person from further danger.
- Properly applied, first aid might mean the difference between life and death, between rapid recovery and a long hospitalization, or between temporary and a permanent disability.

#### **Student Learning Targets/Objectives**

#### <u>Unit 1</u>

#### Lesson 1- Introduction to Emergency Care and Emergency Services / Background Information

- Explain the importance of first aid and how first aid can make a difference to a victim of injury or sudden illness.
- Describe the value of first aid to self and others in remote areas and identify who needs first aid.
- Describe the difference between personal first aid kit and a workplace first aid kit, as well as the supplies that should be in each.
- Describe the legal and ethical issues involved in giving first aid, including the duty act, consent, and standard of care and the Good Samaritan Law.
- Compare and contrast the different types of consent.
- Explain the importance of injury prevention; giving concrete examples.
- Describe how the emergency medical system works.
- Explain the purpose of OEM, CERT, FEMA, NERT and Ready.gov in emergency preparation.
- Differentiate between emergency services offered on the local, county, state, national and international level.
- Explain at least ten essential supplies for a disaster kit and create a first aid kit.

#### Lesson 2-Action at an Emergency

- Define the characteristics of an emergency and the actions that should be taken by a bystander.
- Describe the possible behaviors of a bystander and the reasons behind the behaviors.
- Describe when to call 911/EMS and what information to give.
- Identify situations that require medical care and reactions that might be displayed by rescuers before, during and after an emergency.
- Identify hazardous conditions that may be present in an emergency situation and the risks of infectious and communicable diseases.
- Describe the standard precautions first aiders should take to prevent coming into direct contact with infectious agents.
- Explain the four conditions that affect the growth of bacteria and five ways that microorganisms are spread.
- Demonstrate the procedure for hand washing and the procedure for glove removal.
- Explain the following terms: asepsis, aseptic, autoclave, disinfection, bloodborne pathogens, infection control, isolation, nosocomial infection, pathogen, sterilization, transmission.
- Differentiate between bacteria and virus
- Give examples of at least five ways to prevent becoming infected with a bloodborne pathogen or communicable disease.
- List the stages of grieving and describe ways to assist a dying victim and survivors.

#### Lesson 3- Finding out what's wrong

- Describe the sequence of victim assessment for responsive and unresponsive victims.
- Describe the importance of and the steps in a scene size-up and explain tirage.
- Describe the AVPU scale and its purpose. (Alert, Voice, Pain, Unconscious)
- Describe the steps in the primary check for a responsive and unresponsive victim.
- Describe the steps in a secondary check for victims with a significant cause of injury.
- List the parts of the mnemonic DOTS (Deformity, Open Wounds, Tenderness, and Swelling) and the parts of a SAMPLE history.
- Describe what to do until help arrives.

#### Assessments

• Pre and Formative

Applied Education Systems: Health Center 21: https://aeseducation.com Module pre-test, worksheets and activities

Unit Group Scenarios and discussion

Topical On-line quiz

Journal writing reflection on items learned.

Unit assignments

Lesson quiz

Wolgin Worksheet pages

Wolgin Textbook Chapter Review

• Summative

Unit test and module test/quizzes Online end of the semester/Cumulative Rutgers Final Exam

Authentic

Writing assignment

Project (Disaster Kit, PowerPoint on Emergency Services at local, state, etc. levels., HOSA skill performance guidelines.)

Wolgin Textbook, Critical Thinking Questions, Journal entry

Journal writing: reflection on items learned.

First Aid Skill Performance: Checking scene for safety/HOSA CPR List

Teaching and Learning Actions		
Instructional Strategies	Applied Education Systems: Health Center 21: https://aeseducation.com Modules on	
	CPR and Basic Life Support; Emergency Care; Bloodborne Pathogens Site contains	
	lessons, power points, video clips, worksheets, activities, quiz and tests.	
	Socratic seminar/group classroom discussion:	
	Divide the class into groups of three or four, and instruct each on the parameters of	
	their assignment. End with class-wide sharing out.	
	Student Self-Assessment-Skills check	
	Modeling of strategies and skills/Simulation and Hands-on Learning-Skill	
	<u>practice/Role Play-Performance of skills using</u> CAE ARES Manikin:	
	Independent work or in groups of two, the student will perform an assignment	
	utilizing the CAE ARES Manikin which can consist of:	
	-Communication skills with a patient	
	-Primary and Secondary Check	
	-Practice Vital Sign skills: blood pressure, pulse, respirations	
	-Wound care	
	-Case study treatment	
	-Advanced Life Support	
	-CPR performance	
	-Defibrillation performance	
	-Stethoscope performance	
	-Pupil condition observation	
	The above assignment will be followed up with a log/journal entry in google	
	classroom, recording results and observations of patient assessment.	

	Simulations/Hands-on Learning/Identifying similarities and differences: Anatomage
	<u>Table:</u>
	Independent work or in groups of two, the student will perform an assignment for the
	Simulations-Anatomage Table which can consist of:
	-View one of the 600 clinical cases and 3D image as per student interest or class topic
	of the week. Review medical notes. Record medical terms that are not understood
	and look up definitions. Record summary of the patient, pathology results and
	diagnosis.
	-Quiz mode- test knowledge
	-Full Annotations-determine body system as per student interest or class topic of the
	week; display section, determine name of a part, press on part to determine if
	correct.
	-Interactive cutting and segmentation-using tools practice dissection and view internal
	structures of body part of choice or body part related to class discussions of the week.
	-View gross anatomy of one of the four cadavers of student's choice. Record
	observations
	-View regional anatomy of the student's choice. Record observations.
	The above assignment will be followed up with a log/journal entry in google
	classroom.
	Activities-Unit 1
Activities:	Lesson 1- Introduction to Emergency Care and Emergency Service Agencies
	Ch 1- Students to review Table 1-1 Ten Leading Causes of Death by Age Group and
	pick one type of mortality to research to determine mechanism of injury or etiology of the illness and what factors might have been modifiable to alter the course of disease
	or injury.
	Group class discussion: Instruct each group to create a brief scenario depicting a
	situation where first aid should be administered. Have the group perform the
	scenario for the others in the class.
	Note booking/Journaling in Google Classroom: Have each student research injuries
	where first aid was administered and write a brief, one-page recommendation on
	what could have been done to prevent the injury from occurring.
	Medical Terminology Review: Ask students to describe the difference between
	expressed and implied consent and the steps they should take when confronted with victims in each situation.
	Project: Research government agencies related to emergency response on the local,
	state, national and international level. Create and present a powerpoint on
	emergency services offered on the local, county, state, national and international
	level.
	View and discuss the web sites for the following agencies:
	Orange-OEM, Essex County-CERT, FEMA, NERT and Ready.gov
	Create a list or draw a picture of essential supplies for a disaster kit and a first aid kit.

Complete Unit Quiz
<u>Lesson 2-Action at an Emergency</u> <u>Ch 2-</u> Discussion: Students can share their own experiences with a family member
diagnosed with a terminal illness to discuss the grieving process
You tube video on Scene Size-up <u>https://www.youtube.com/watch?v=PPBz_3II_mk</u>
Have students search the internet for cases in which first aid was necessary or draw from the news reports of the day to answer questions related to Scene Size-Up: What type of PPE needed? What safety hazards can be identified? What is the mechanism of injury or nature of illness? How many crew members or ambulance rigs may be necessary?
Note booking/Journaling in Google Classroom: Instruct each student to write a script of a call made to 911. Have students use textbooks to make sure they include all pertinent information. Students can invent their own emergency situation to report.
Medical Terminology Review: Ask students to describe the difference between bloodborne diseases and airborne diseases. Have students research some known diseases in each category.
Group activity: Instruct each group to create a brief scenario depicting an emergency. Have one student be the victim, while the other students act as the bystanders. Instruct one student to be a bystander who decides to help, and another student who is a bystander who does not help. Have groups perform their scenarios for the others in the class. Have group members describe their roles and their motivations.
ARES: Model, practice and perform skills learned on ARES manikin, especially Primary and Secondary Check. Simulations-Anatomage Table-Practice knowledge of human anatomy
Pretest on First Aid, "What do you know?" View and discuss American Red Cross Video Clip Deciding to Act View, discuss and record notes from American Red Cross: Unit 1, Before Giving Care and Checking an Injured or III Person. View and discuss, Standard First Aid, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005. Print and DVD Clips, Chapters 1 and 2 Summarize notes from CPR and AED for Community and Workplace. Eugene, OR: American Safety & Health Institute, 2009. Print, DVD Clips and PowerPoint 1-14 and
American safety & Realth Institute, 2009. Print, DVD clips and PowerPoint 1-14 and 80 to 128, page 2 Zigzag read the Wolgin textbook Chapter 6-Safety. Independently complete worksheet pages from Wolgin workbook Chapter 6-Safety. Complete Wolgin Chapter 6 review questions and discuss. Complete Wolgin Chapter 6 Critical Thinking Questions into journal notebook. Exit Ticket: sentences on new terminology discussed in class. Discuss the importance of first aid in saving a life. Model and practice how to contact emergency medical services, such as 911.

Discuss the legal issues involved in giving first aid, including the duty act, consent, and
standard of care and the Good Samaritan Law.
Model and practice "how to check the scene"; the procedure for hand washing; the
procedure for glove removal; how to check the victim's ABC's for life-threatening
problems.
Create a list of important questions that must be answered when evaluating an
emergency.
Review Health Occupation Students of America (HOSA) guidelines for handwashing
and glove removal.
View American Red Cross Video Clip on preventing the transmission of blood borne
pathogens. View, discuss and summarize notes from CPR and AED for Community and Workplace.
Eugene, OR: American Safety & Health Institute, 2009. Print, pages 4-5, DVD Clips and PowerPoint #15-27
Create powerpoint on skills for handwashing and glove removal based on HOSA
guidelines.
Zigzag read the Wolgin textbook Chapter 5-Infection Control.
Independently complete worksheet pages from Wolgin workbook Chapter 5.
Complete Wolgin Chapter 5 review questions and discuss.
Complete Wolgin Chapter 5 Critical Thinking Questions into journal notebook.
Exit Ticket: sentences on new terminology discussed in class.
Journal writing: reflection on items learned.
Complete Unit Quiz
Lesson 3- Finding out what's wrong
<u>Ch 3-</u> Students should either use models or themselves to identify all major bones of
the extremities Students can practice taking pulses and compare right and left radial
artery pulses as well as compare pulses taken proximally with distal pulses. Why may
differences occur? Have students measure blood pressure in supine, sitting, and
standing. What may account for differences?
Ch 4- Students should practice performing a "primary check", "physical exam", and
SAMPLE history on each other. Partners can pretend to be having a medical illness
such as a myocardial infarction, asthma, or a behavioral emergency, or have
experienced a traumatic injury to the hip or knee. There are many YouTube videos
that students can view and then practice recording a SAMPLE history
https://www.youtube.com/watch?v=cwyJHy8zaE4
Note booking/Journaling in Google Classroom:
Instruct students to create outlines for themselves from the information in the
chapter to use later when working in small groups. The outlines will assist them in
following the proper victim assessment steps.
Group activities:
Divide the class into groups of three or four, and instruct each group to take turns
assessing emergency victims and situations. Allow students to use the outlines they
created as a writing assignment to assist them in following the proper steps.
Medical Terminology Review:
medical reminionaly netrem.

	Have students write out full descriptions of the many mnemonic devices presented in this lesson.
	Complete Unit 1 Test
Experiences (virtual and live field trips)	<ul> <li>Suggested Guest Speaker: OHS Athletic Trainer to discuss first aid.</li> <li>Local First Aid Squad or Ambulance or an EMT or another emergency responder.</li> <li>Hands on interaction with CAE ARES manikin.</li> </ul>
Resources	
<ul> <li>University, ISBN-13: 97</li> <li>Karren, K. (2012). First 9780321732590</li> <li><u>Applied Education Sy</u> Support; Emergency C worksheets, activities,</li> <li>Wolgin, Francine. Bein Chapter 5-Infection Cc</li> <li>Pulliam, Jolynn, and Fr Prentice Hall, 2000. Pr</li> <li>Unit 1: American Red</li> <li>Unit 1: American Red</li> <li>Unit 1: American Red</li> <li>Unit 1: American Red</li> <li>Unit 1: Standard First Clips, Chapters 1 and 2</li> <li>Unit 1: CPR and AED f Print, DVD Clips and Po</li> <li>Unit 1: Websites for C</li> <li>Laptops or computer</li> <li>Internet access</li> <li>Simulations-Anatomag</li> <li>CAE ARES Manikin; CP</li> </ul>	aid for colleges and universities (10 <sup>th</sup> ed.). Boston: Benjamin Cummings. ISBN-13: <u>stems: Health Center 21</u> : https://aeseducation.com Modules on CPR and Basic Life are; Bloodborne Pathogens Site contains lessons, power points, video clips, quiz and tests. g a Nursing Assistant. 8th ed. Saddle River, NJ: Prentice Hall Health, 2000. Print. introl, Chapter 6-Safety, Chapter 13-Emergency Care ancine Wolgin. Workbook: Being a Nursing Assistant. 8th ed. Upper Saddle River, NJ: int. Chapter 5-Infection Control, Chapter 6-Safety Chapter 13-Emergency Care Cross Video Clip Deciding to Act Cross: Unit 1, Before Giving Care and Checking an Injured or III Person: <u>dcross.org/learningcontent/PHSS/PHSS/Flanker/flanker p6/Unit1/video introduction.h</u> Aid, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005. Print and DVD cor Community and Workplace. Eugene, OR: American Safety & Health Institute, 2009. DwerPoint 1-14 and 80 to 128, page 2 Drange-OEM, Essex County-CERT, FEMA, NERT and Ready.gov ge Table R Mannequins and face shields r bandaging and splints.
racing/ time rrame:	period.

Unit 2	CPR, AED and Shock	Grade(s)	12
<b>Overview/Rational</b>	e		
	The focus of this unit is on understanding how to perform CPR and rescue breathing on an adult, child and infant. They will also practice first aid procedures and CPR.		
New Jersey Studen	t Learning Standards		
<ul> <li>9.3.HL.1 Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career</li> <li>9.3. HL.3 Identify existing and potential hazards to clients, co-workers, visitors and self in the healthcare workplace.</li> <li>9.3. HL.5 Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.</li> <li>9.3. LW-EFM.1 Demonstrate effective communication skills (e.g., writing, speaking, listening and nonverbal communication) while utilizing communications equipment and platforms common to emergency and fire</li> </ul>			lthcare hin the nonverbal
<ul> <li>9.3. LW-EFM.2 Manage an incident scene as the first responder using emergency response skills.</li> <li>9.3. LW-EFM.4 Demonstrate an understanding of the objectives and a commitment to the mission of emergency and fire management services.</li> <li>9.3. LW-EFM.5 Execute safety procedures and protocols associated with local state and federal regulations.</li> <li>9.3. LW-EFM.7 Describe the legal regulatory and organizational guidelines governing emergency and fire management services.</li> <li>9.3. LW-EFM.9 Execute protocols for handling emergency situations that range from minor medical and fire emergencies to area-wide incidents.</li> <li>9.3. LW-EFM.10 Demonstrate the use and various applications of the equipment commonly used in</li> </ul>			on of egulations. and fire cal and fire
	and fire management services.	,	
Career Readiness,	Life Literacies, and Key Skills		
<ul> <li>(e.g., life gu</li> <li>9.2.8.CAP.9</li> <li>apprentice</li> <li>postsecond</li> <li>9.2.12.CAP</li> </ul>	Explain the reasons why some jobs and careers require specific training aards, child care, medicine, education) and examples of these requireme Analyze how a variety of activities related to career preparation (e.g., v ships, structured learning experiences, dual enrollment, job search, scho lary options. .2: Develop college and career readiness skills by participating in opportu periences, apprenticeships, and dual enrollment programs.	nts. volunteering, larships) impa	acts
<ul> <li>9.2.12.CAP.6: Identify transferable skills in career choices and design alternative career plans based on those skills.</li> <li>9.2.12.CAP.7: Use online resources to examine licensing, certification, and credentialing requirements at the local, state, and national levels to maintain compliance with industry requirements in areas of career interest.</li> </ul>			nents at the
12prof.CR3 9.4.12.Cl.2 12prof.CR2 9.4.12. CT.3 practice (e.	Identify career pathways that highlight personal talents, skills, and ability b, 2.2.12.LF.8). L: Identify problem-solving strategies used in the development of an inner g., 1.1. 12acc.C1b, 2.2.12. PF.3).	ties (e.g., 1.4. ovative produ	ct or
	<ol> <li>Explain the potential benefits of collaborating to enhance critical think</li> <li>12profCR3.a).</li> </ol>	וומ מומ אומ אווים	ein solving

• CRP1. Act as a responsible and contributing citizen and employee.

- CRP2. Apply appropriate academic and technical skills.
- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.
- CRP5. Consider the environmental, social and economic impacts of decisions.
- CRP6. Demonstrate creativity and innovation.
- CRP7. Employ valid and reliable research strategies.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP9. Model integrity, ethical leadership and effective management.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP12. Work productively in teams while using cultural global competence.

CRP12. Work productively in teams while using cultural global competence.		
Technology/Computer Science and Design Thinking	Interdisciplinary Standards	
8.1.12.A.1 Create a personal digital portfolio which reflects	NJSLSA.R1: Read closely to determine what the text	
personal and academic interests, achievements, and career	says explicitly and to make logical inferences and	
aspirations by using a variety of digital tools and resources.	relevant connections from it; cite specific textual	
	evidence when writing or speaking to support	
8.1.12. D.1 Demonstrate appropriate application of	conclusions drawn from the text.	
copyright, fair use and/or Creative Commons to an original		
work.	NJSLSA.R4: Interpret words and phrases as they are	
	used in a text, including determining technical,	
9.4.12.TL.1: Assess digital tools based on features such as	connotative, and figurative meanings, and analyze how	
accessibility options, capacities, and utility for	specific word choices shape meaning and tone.	
accomplishing a specified task (e.g., W.11-12.6.).		
	NJSLSA.W4. Produce clear and coherent writing in	
9.4.12.TL.4: Collaborate in online learning communities or	which the development, organization, and style are	
social networks or virtual worlds to analyze and propose a	appropriate to task, purpose, and audience.	
resolution to a real-world problem.		
	NJSLSA.W5. Develop and strengthen writing as needed	
	by planning, revising, editing, rewriting, or trying a new	
	approach.	
	NJSLSA.W6. Use technology, including the Internet, to	
	produce and publish writing and to interact and	
	collaborate with others.	
	PL 11 12 1 Accurately site strong and therough textual	
	RI.11-12.1. Accurately cite strong and thorough textual evidence, (e.g., via discussion, written response, etc.),	
	to support analysis of what the text says explicitly as	
	well as inferentially, including determining where the	
	text leaves matters uncertain.	
	RI.11-12.2. Determine two or more central ideas of a	
	text, and analyze their development and how they	
	interact to provide a complex analysis; provide an	
	objective summary of the text.	
	Coloneo US US 1 2. Dian and conduct on investigation to	
	Science HS-LS1-3. Plan and conduct an investigation to	
	provide evidence that feedback mechanisms maintain	
	homeostasis.	

HS-LS4-1. Communicate scientific information that
common ancestry and biological evolution are
supported by multiple lines of empirical evidence.
HS-LS4-4. Construct an explanation based on evidence for how natural selection leads to adaptation of populations.
HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.
HS-LS2-8. Evaluate the evidence for the role of group
behavior on individual and species' chances to survive
and reproduce.
HS-LS4-1. Communicate scientific information that
common ancestry and biological evolution are
supported by multiple lines of empirical evidence.
Health 2.1.12.D.6 Demonstrate first-aid procedures, including Basic Life Support and automatic external defibrillation, caring for head trauma, bone and joint emergencies, caring for cold and heat injuries, and responding to medical emergencies.
Il emergency impact a victim?
utomated external defibrillation (AED) emergency action
dies and because the blood supply is severely reduced or

- A heart attack occurs when the heart muscle tissue dies and because the blood supply is severely reduced or stopped, if too severe cardiac arrest can occur.
- Following the five links in the chain of survival help to improve survival from cardiac arrest.
- A victim's chances of survival are dramatically improved through early and effective CPR and defibrillation.

#### Student Learning Targets/Objectives

#### Unit 2

- Lesson 1-CPR-Respiratory and Circulatory System Emergencies -Ch 5-
  - Research factors affecting high quality CPR and how manual CPR differs from mechanical CPR in terms of survival rates and perform high quality CPR and explain when CPR is needed.
  - Research the connection between socioeconomic status and health outcomes following cardiac arrest.
  - Describe the difference between a heart attack and cardiac arrest and the steps in the chain of survival
  - Demonstrate the recovery position of an unresponsive victim
  - Explain the value of rescue breathing and demonstrate how to give rescue breaths.
  - Demonstrate how to provide choking care and describe what choking is; demonstrate the universal sign for choking.

- Identify types of airway obstructions and describe and demonstrate the proper first aid procedure and stance for delivering first aid to a choking adult, child and infant.
- Explain the indications that a person is choking if they don't give the universal signal.

#### Lesson 2- Automated External Defibrillation-Ch 6-

- Demonstrate and practice using the AED and describe why AEDs are available in many public facilities and how they function.
- View YouTube Video-Using the AED under different circumstances <u>https://www.procpr.org/training/video/adult-aed</u>
- Describe the basic workings of the human heart and identify the differences between ventricular fibrillation and ventricular tachycardia.
- Describe basic procedures for cardiac arrest victims.

#### Lesson 3- Shock-Ch 7-

- Compare and contrast cardiogenic shock with anaphylactic shock and explain the care needed for a victim in shock.
- Describe the signs and symptoms of anaphylaxis and the care needed for anaphylaxis.
- Describe the difference between perfusion and hypoperfusion.
- List and describe the non-cardiovascular and cardiovascular causes of shock and psychogenic shock.
- Describe the difference between compensated and decompensated shock.

#### Assessments

#### Pre and Formative

<u>Applied Education Systems: Health Center 21</u>: https://aeseducation.com Module pre-test, worksheets and activities Unit Group Scenarios and discussion

Topical On-line quiz Journal writing reflection on items learned. Unit assignments Lesson quiz

Wolgin Worksheet pages Wolgin Textbook Chapter Review

#### <u>Summative</u>

Unit test-American Red Cross BLS-Basic Life Support Written and Skill Test Online end of the semester Rutgers Cumulative Final Exam

#### Authentic

Writing assignment Wolgin Textbook, Critical Thinking Questions, Journal entry Journal writing: reflection on items learned. First Aid Skill Performance:

- Check the victim's ABC's for life-threatening problems
- Handwashing
- Glove placement and removal
- Mask placement and removal
- Recovery position of an unresponsive victim
- CPR
- AED
- First Aid for choking

#### Emergency and Clinical Care

Teaching and Learning Actions		
Instructional Strategies	<u>Unit 2</u> <u>Lesson 1-CPR-Respiratory and Circulatory System Emergencies</u> Note booking/Journaling in Google Classroom: Instruct students to research the various foods and objects that cause severe or mild airway obstruction in adults, children and infants, and write a brief, one-page comparison report summarizing the most common occurrences of airway obstruction in adults, children and infants.	
	Group activities: Divide the class into groups of three or four, and instruct each group to create a brief scenario depicting a cardiac arrest or choking emergency and perform the scenario for the others in the class. Medical Terminology Review:	
	Ask students to describe the difference between ventricular fibrillation, V-fib, and ventricular tachycardia, V-tach and how each abnormality is detected.	
	Complete lesson quiz.	
	<ul> <li>View, discuss and record notes from American Red Cross: Unit 2, Cardiac</li> <li>Emergencies and CPR, Unit 3, AED and Unit 4, Breathing Emergencies.</li> <li>ARES: Model, practice and perform skills learned on ARES manikin.</li> <li>Simulations-Anatomage Table-Practice knowledge of human anatomy</li> <li>Model and practice the recovery position of an unresponsive victim</li> <li>Model and practice how to give rescue breaths.</li> <li>Model and practice the universal sign for choking.</li> <li>Model and practice the proper first aid procedure and stance for delivering first aid to a choking adult, child and infant.</li> <li>Model and practice CPR</li> </ul>	
	<u>Lesson 2-AED</u> Note booking/Journaling in Google Classroom: Instruct students to research public access defibrillation (PAD) laws and the FDA's approval of "home use" AEDs, and write a one-page report about why these movements are important to the care of cardiac arrest victims.	
	Group activities: Divide the class into groups of three or four, and instruct each group to act out a scene in which an AED might be used. Have one student assume the role of the victim, another person using the AED, and another as a bystander. This activity can be done several times, having students assume the different roles.	
	ARES: Model, practice and perform AED skills learned on ARES manikin.	
	Medical Terminology Review: Ask students to describe the difference between cardiac arrest and heart attack, and determine whether there are also differences in the immediate care of victims who suffer from either. Simulations-Anatomage Table-Practice knowledge of human anatomy, view case study of heart attack	

Complete lesson quiz.
Model and practice the use of an AED Zigzag read Wolgin textbook 288-289 choking, 282-288 shock and CPR, Chapter 13 and 18. Complete Wolgin. Workbook: Ch 13 and 18 View and discuss from Standard First Aid, CPR, and AED. New York, NY: McGraw- Hill Higher Education, 2005. Print and DVD Clips, Chapters 3 and 5 View, discuss and record notes from CPR and AED for Community and Workplace. Eugene, OR: American Safety & Health Institute, 2009. Print, DVD Clips and PowerPoint 32-35 cardiovascular disease, 27-31 choking, 52-79 CPR, 129-160 choking, 538-540. Create an on-line Quizlet on skill performance and terminology.
Journal writing: reflection on items learned. <u>Lesson 3- Shock</u> Note booking/Journaling in Google Classroom: Instruct students to research the four types of cardiovascular shock: cardiogenic, hypovolemic or hemorrhagic, neurogenic and septic; and write a compare and contrast essay on all four types.
Group activities: Divide the class into three groups. Assign each group the task of acting out a scene where they are caring for a general shock victim, an anaphylactic shock victim, or a psychogenic shock victim. Have each group perform their scenario for the other members of the class. ARES: Model, practice and perform skills learned on ARES manikin, especially first aid for shock Simulations-Anatomage Table-Practice knowledge of human anatomy
Medical Terminology Review: Ask students to describe the difference between perfusion and hypoperfusion Complete lesson quiz and Unit test.

	Applied Education Systems: Health Center 21: https://aeseducation.com Modules
Activities: Including G/T, SE,	on CPR and Basic Life Support; Emergency Care; Bloodborne Pathogens Site
and ELL Differentiation	contains lessons, power points, video clips, worksheets, activities, quiz and tests.
	Socratic seminar/group classroom discussion:
	Divide the class into groups of three or four, and instruct each on the parameters
	of their assignment.
	Modeling of strategies and skills/Simulation and Hands-on Learning-Skill
	practice/Role Play-Performance of skills using
	<u>CAE ARES Manikin:</u>
	Independent work or in groups of two, the student will perform an assignment
	utilizing the CAE ARES Manikin which can consist of:
	-Communication skills with a patient
	-Advanced Life Support
	-Airway obstruction
	-CPR performance
	-Defibrillation performance
	-Shock
	-Recovery Position
	-Case study treatment
	-The above assignment will be followed up with a log/journal entry in google
	classroom, recording results and observations of patient assessment.
Experiences	Suggested Guest Speaker: OHS Athletic Trainer to discuss first aid.
(Virtual and live field trips)	Local First Aid Squad or Ambulance or an EMT or another emergency responder.
(vintual and interneta trips)	
Resources	Hands on interaction with CAE ARES manikin and Anatomage Table
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• Tyygerson, S. & Thygerso	Hands on interaction with CAE ARES manikin and Anatomage Table on A., (n.d.). <i>First Aid, CPR, and AED Essentials, Sixth Edition</i> , Brigham Young
<ul> <li>Tyygerson, S. &amp; Thygerson, S. With Strain Str</li></ul>	Hands on interaction with CAE ARES manikin and Anatomage Table on A., (n.d.). <i>First Aid, CPR, and AED Essentials, Sixth Edition</i> , Brigham Young 1449626624
<ul> <li>Tyygerson, S. &amp; Thygerson, S. With Strain Str</li></ul>	Hands on interaction with CAE ARES manikin and Anatomage Table on A., (n.d.). <i>First Aid, CPR, and AED Essentials, Sixth Edition</i> , Brigham Young
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<ul> <li>Tyygerson, S. &amp; Thygerson, S. With Strain Str</li></ul>	Hands on interaction with CAE ARES manikin and Anatomage Table on A., (n.d.). <i>First Aid, CPR, and AED Essentials, Sixth Edition</i> , Brigham Young 1449626624 <i>id for colleges and universities (10<sup>th</sup> ed.).</i> Boston: Benjamin Cummings. ISBN-13: <u>ems: Health Center 21</u> : https://aeseducation.com Modules on CPR and Basic Life e; Bloodborne Pathogens Site contains lessons, power points, video clips,
<ul> <li>Tyygerson, S. &amp; Thygerson, S. With Strain Str</li></ul>	Hands on interaction with CAE ARES manikin and Anatomage Table on A., (n.d.). <i>First Aid, CPR, and AED Essentials, Sixth Edition,</i> Brigham Young 1449626624 <i>id for colleges and universities (10<sup>th</sup> ed.).</i> Boston: Benjamin Cummings. ISBN-13: <u>ems: Health Center 21</u> : https://aeseducation.com Modules on CPR and Basic Life e; Bloodborne Pathogens Site contains lessons, power points, video clips, uiz and tests. a Nursing Assistant. 8th ed. Saddle River, NJ: Prentice Hall Health, 2000. Print.
<ul> <li>Tyygerson, S. &amp; Thygerson, S. &amp; Thygerson, S. &amp; Thygerson, S. &amp; Thygerson, University, ISBN-13: 978</li> <li>Karren, K. (2012). First and 9780321732590</li> <li><u>Applied Education System</u> Support; Emergency Carworksheets, activities, q Wolgin, Francine. Being Chapter 5-Infection Complexity</li> </ul>	Hands on interaction with CAE ARES manikin and Anatomage Table on A., (n.d.). <i>First Aid, CPR, and AED Essentials, Sixth Edition</i> , Brigham Young 1449626624 <i>id for colleges and universities (10<sup>th</sup> ed.).</i> Boston: Benjamin Cummings. ISBN-13: <u>ems: Health Center 21</u> : https://aeseducation.com Modules on CPR and Basic Life e; Bloodborne Pathogens Site contains lessons, power points, video clips, uiz and tests. a Nursing Assistant. 8th ed. Saddle River, NJ: Prentice Hall Health, 2000. Print. trol, Chapter 6-Safety, Chapter 13-Emergency Care
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Unit 2: American Red Cr	oss: Unit 4, Breathing emergencies -	
http://con1.classes.redc	ross.org/learningcontent/PHSS/PHSS/Flanker/flanker_p6/Unit4/Unit_objectives.htm	
<u>I</u>		
288-289 choking, 282-28	Being a Nursing Assistant. 8th ed. Saddle River, NJ: Prentice Hall Health, 2000. Print. 8 shock and CPR, Chapter 13 and 18 nd Francine Wolgin. Workbook: Being a Nursing Assistant. 8th ed. Upper Saddle	
· · ·	2000. Print. Ch 13 and 18	
	d, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005. Print and DVD	
	Community and Workplace. Eugene, OR: American Safety & Health Institute, 2009. verPoint 32-35 cardiovascular disease, 27-31 choking, 52-79 CPR, 129-160 choking,	
<ul> <li>Laptops or computer</li> </ul>		
<ul> <li>Internet access</li> </ul>		
<ul> <li>Resource: Simulations-A</li> </ul>	natomage Table	
<ul> <li>CAE ARES Manikin and C</li> </ul>	PR Mannequins and face shields	
<ul> <li>Sample AED device.</li> </ul>		
<ul> <li>Sample First AID kit.</li> </ul>		
Sample choking mannequin.		
<ul> <li>Soap, water and paper to</li> </ul>	owels.	
<ul> <li>Disposable gloves and face masks.</li> </ul>		
Pacing/ Time Frame:	Unit 2: CPR, AED and Shock: 20 class periods, 41 minutes per period.	

Unit 3	Bleeding, wounds and burns	Grade(s)	12
Overview/Rationale			
The focus of this unit is on understanding how to perform first aid on an adult, child and infant for burns, bleeding and wounds. They will also practice first aid procedures.			
New Jersey Student	New Jersey Student Learning Standards		
<ul> <li>for pursuing</li> <li>9.3. HL.3 Ide workplace.</li> <li>9.3. HL.5 An healthcare v</li> <li>9.3. LV-EFN communica managemen</li> <li>9.3. LW-EFN</li> </ul>	<ul> <li>1.1 Demonstrate effective communication skills (e.g., writing, speaking, lition) while utilizing communications equipment and platforms common to systems.</li> <li>1.2 Manage an incident scene as the first responder using emergency responder using emergency responder and platforms communications of the objectives and a commitment to and fire management services.</li> <li>1.5 Execute safety procedures and protocols associated with local state an understanding of organizational guidelines governing</li> </ul>	elf in the heal f actions with istening and to emergency ponse skills. to the mission nd federal re emergency a minor medica	thcare in the nonverbal and fire of gulations. and fire al and fire
Career Readiness, L	ife Literacies, and Key Skills		
<ul> <li>(e.g., life gu</li> <li>9.2.8.CAP.9</li> <li>apprentices</li> <li>postseconds</li> <li>9.2.12.CAP.3</li> <li>learning exp</li> </ul>	<ul> <li>Explain the reasons why some jobs and careers require specific training, ards, child care, medicine, education) and examples of these requirements. Analyze how a variety of activities related to career preparation (e.g., volhips, structured learning experiences, dual enrollment, job search, schola ary options.</li> <li>2: Develop college and career readiness skills by participating in opportune periences, apprenticeships, and dual enrollment programs.</li> <li>5: Identify transferable skills in career choices and design alternative care</li> </ul>	ts. plunteering, arships) impa nities such as	cts structured
• • • • • • • • • •			

- 9.4.12.Cl.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1. 12prof.CR3a).
- 9.4.12.Cl.2: Identify career pathways that highlight personal talents, skills, and abilities (e.g., 1.4. 12prof.CR2b, 2.2.12.LF.8).
- 9.4.12. CT.1: Identify problem-solving strategies used in the development of an innovative product or practice (e.g., 1.1. 12acc.C1b, 2.2.12. PF.3).
- 9.4.12. CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving (e.g., 1. 3E.12profCR3.a).
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.

- CRP5. Consider the environmental, social and economic impacts of decisions.
- CRP6. Demonstrate creativity and innovation.
- CRP7. Employ valid and reliable research strategies.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP9. Model integrity, ethical leadership and effective management.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP12. Work productively in teams while using cultural global competence.

Technology/Computer Science and Design Thinking	Interdisciplinary Standards
<ul> <li>Technology/Computer Science and Design Thinking</li> <li>8.1.12.A.1 Create a personal digital portfolio which reflects personal and academic interests, achievements, and career aspirations by using a variety of digital tools and resources.</li> <li>8.1.12. D.1 Demonstrate appropriate application of copyright, fair use and/or Creative Commons to an original work.</li> <li>9.4.12.TL.1: Assess digital tools based on features such as accessibility options, capacities, and utility for accomplishing a specified task (e.g., W.11-12.6.).</li> <li>9.4.12.TL.4: Collaborate in online learning communities or social networks or virtual worlds to analyze and propose a resolution to a real- world problem.</li> </ul>	<ul> <li>NJSLSA.R1: Read closely to determine what the text says explicitly and to make logical inferences and relevant connections from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.</li> <li>NJSLSA.R4: Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning and tone.</li> <li>NJSLSA.W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.</li> <li>NJSLSA.W5. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.</li> <li>NJSLSA.W6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.</li> </ul>
	collaborate with others. RI.11-12.1. Accurately cite strong and thorough textual evidence, (e.g., via discussion, written response, etc.), to support analysis of what the text says explicitly as well as inferentially, including determining where the text leaves matters uncertain. RI.11-12.2. Determine two or more central ideas of a text, and analyze their development and how they interact to provide a complex analysis; provide an objective summary of the text. Science HS-LS1-3. Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.

	UCICA A Communicate establishing information that
	HS-LS4-1. Communicate scientific information that
	common ancestry and biological evolution are supported
	by multiple lines of empirical evidence.
	HS-LS4-4. Construct an explanation based on evidence for
	how natural selection leads to adaptation of populations.
	HS-LS2-7. Design, evaluate, and refine a solution for
	reducing the impacts of human activities on the
	environment and biodiversity.
	HS-LS2-8. Evaluate the evidence for the role of group
	behavior on individual and species' chances to survive
	and reproduce.
	HS-LS4-1. Communicate scientific information that
	common ancestry and biological evolution are supported
	by multiple lines of empirical evidence.
Essential Question(s)	, ,

#### **Essential Question(s)**

- How can a person provide proper first aid for bleeding, burns and wounds?
- How can a lay person determine when medical care is required for wounds?
- How can we prevent more injuries from occurring during an emergency?

#### **Enduring Understandings**

- Regardless of the type of bleeding or wound, the most important step to take is to control the bleeding.
- Rapid blood loss of 1 quart or more can lead to shock or death.
- A person providing first aid, needs to understand when to recommend that a victim seeks medical care.
- The extent of a burn injury can be determined by using the rule of nines.

#### Student Learning Targets/Objectives

#### <u>Unit 3</u>

#### Lesson 1-Bleeding

#### <u>Ch 8-</u>

- Trace blood flow through major arteries and veins around the body
- List and describe the three types of external bleeding and explain and demonstrate how to control bleeding with direct pressure, elevation and pressure points.
- Describe the difference and care for internal vs. external bleeding and recognize the signs of internal bleeding.
- Describe how to care for and monitor victims of severe internal bleeding and the care for minor internal bleeding (bruising).

#### Lesson 2-Wounds

- *R*esearch for pictures of wounds on the internet and identify them as a degloving injury, laceration, puncture wound, abrasion, avulsion, or amputation.
- Research the steps involved in replantation of a severed digit or hand
- Review You Tube videos on wound bandaging https://www.youtube.com/watch?v=Nzc1YSnSRpE and discuss the types of open wounds and why some wounds need moist dressings
- Describe basic care procedures for open wounds and identify signs of infection in an open wound and precautions against tetanus.

- Classify amputations and describe basic care for amputations.
- Describe basic care for blisters; impaled objects and the procedures for the removal of slivers, fish hooks and cactus spines.
- Describe the types of and basic care procedures for closed wounds and identify the types of wounds that require medical attention and sutures.
- Distinguish the types of injuries caused by gunshots and describe the basic care procedures and legal considerations for gunshot wounds.

#### Lesson 3- Burns

- Research different types of dressings and match the appropriate size to the type of injury
- Correctly identify pictures of burned individuals into first-, second-, or third-degree burns and utilize the "rule of nines" to make burn size estimations.
- Research sunscreens to explain the concept of SPF
- Describe the different types of burns and how burns are evaluated.
- Evaluate and identify thermal burns and describe how to care for thermal burns.
- Evaluate, identify and care for chemical burns, arc burns and true electrical burns.

#### Assessments

#### Pre and Formative

Unit Group Scenarios and discussion Topical On-line quiz Journal writing reflection on items learned. Unit assignments Lesson quiz Wolgin Worksheet pages Wolgin Textbook Chapter Review Applied Education Systems: Health Center 21: https://aeseducation.com Module pre-test, worksheets and activities

#### <u>Summative</u>

Unit test

Online Rutgers, Cumulative Final Exam at end of semester

#### Authentic:

Writing assignment

Project (Disaster Kit, PowerPoint on Emergency Services at local, state, etc. levels., HOSA skill performance guidelines.)

Wolgin Textbook, Critical Thinking Questions, Journal entry

Journal writing: reflection on items learned.

First Aid Skill Performance:

- Glove placement and removal
- Mask placement and removal
- Recovery position of an unresponsive victim
- First Aid for wound care and bleeding
- First Aid for shock
- First Aid for burn care

**Teaching and Learning Actions** 

Instructional Strategies	Lesson 3- Shock
	Note booking/Journaling in Google Classroom:
	Instruct students to research the four types of cardiovascular shock: cardiogenic,
	hypovolemic or hemorrhagic, neurogenic and septic; and write a compare and contrast
	essay on all four types.
	Group activities:
	Divide the class into three groups. Assign each group the task of acting out a scene where
	they are caring for a general shock victim, an anaphylactic shock victim, or a psychogenic
	shock victim. Have each group perform their scenario for the other members of the class.
	ARES: Model, practice and perform skills learned on ARES manikin
	Medical Terminology Review:
	Ask students to describe the difference between perfusion and hypoperfusion
	Simulations-Anatomage Table-Practice knowledge of human anatomy
	Independent Assignment: One student will be assigned/select this topic to teach a 40-
	minute lesson and activity with class.
	Complete lossen quiz and Unit test
	Complete lesson quiz and Unit test.
	Unit 3
	Lesson 1-Bleeding Emergencies
	Note booking/Journaling in Google Classroom:
	Instruct students to research the different types and causes of bleeding (external capillary,
	venous, and arterial bleeding; severe internal bleeding) and write a compare and contrast
	essay. Instruct students to describe at least three causes of severe internal bleeding in their
	paper.
	Group activities:
	Divide the class into groups of three or four, and instruct each group to create a brief
	scenario depicting the emergency treatment of a different type of bleeding victim. Have
	one student be the victim, one the victim's friend who can provide info. to the paramedics
	and the other the paramedic. Have groups perform the scenario for the class.
	ARES: Model, practice and perform skills learned on ARES manikin
	Medical Terminology Review:
	Ask students to describe the difference between capillary, venous and arterial bleeding.
	Simulations-Anatomage Table-Practice knowledge of human anatomy
	Independent Assignment: One student will be assigned/select this topic to teach a 40-
	minute lesson and activity with class
	Complete lesson quiz.
	View, discuss and record notes from American Red Cross: Unit 7, Soft tissue injuries.
	Zigzag read the Wolgin textbook 291 to 292 and summarized notes.
	Complete Wolgin. Workbook: Ch 13 on corresponding topic area.
	Create an on-line Quizlet on skill performance and terminology.
	View, discuss and summarize notes: Standard First Aid, CPR, and AED. New York, NY:

View, discuss and summarize notes: Standard First Aid, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005. Print and DVD Clips, Chapters 4 and 6

Model and practice controlling bleeding with direct pressure, elevation Model and pressure points

Exit ticket on five new terms learned. Journal writing: reflection on items learned.

#### Lesson 2- Wounds

Note booking/Journaling in Google Classroom: Instruct students to research the different types of gunshot wounds and the types of bullets, firearms, injuries, and treatment options associated with each.

Group activities:

Divide the class into groups of three or four, and instruct each group to create a brief scenario depicting a scene in which a victim sustains a specific type of wound. Have one student be the victim, another the paramedic and the others as bystanders. Have groups perform the scenario for the class.

ARES: Model, practice and perform skills learned on ARES manikin

Independent Assignment: One student will be assigned/select this topic to teach a 40minute lesson and activity with class

Medical Terminology Review:

Have students make flashcards to review the meaning of bandage, dressing, abrasion, laceration, incision, puncture, avulsion and amputation. Simulations-Anatomage Table-Practice knowledge of human anatomy

Complete lesson quiz.

#### Lesson 3-Burns

Note booking/Journaling in Google Classroom: Have students research how physicians determine the depth of a burn and write a one-page essay describing the process. Have students present their findings.

Group activities:

Divide the class into four groups. Assign each group the task of acting out how they would care for either a first-degree, second-degree, third-degree or chemical burn. Instruct each group to do one thing wrong during their presentation. Have other groups identify what each group does incorrectly during the car of a particular burn.

Independent Assignment: One student will be assigned/select this topic to teach a 40minute lesson and activity with class

#### Medical Terminology Review:

Ask students to research the difference among first-degree, second-degree, third-degree and chemical burns. Have students make a chart for quick reference.

Complete lesson quiz and Unit test.

	Applied Education Systems: Health Center 21: https://aeseducation.com Modules on CPR		
Activities:	and Basic Life Support; Emergency Care; Bloodborne Pathogens Site contains lessons,		
	power points, video clips, worksheets, activities, quiz and tests.		
	Socratic seminar/group classroom discussion:		
	Divide the class into groups of three or four, and instruct each on the parameters of their		
	assignment.		
	Note booking/Journaling in Google Classroom		
	Modeling of strategies and skills/Simulation and Hands-on Learning-Skill practice/Role		
	Play-Performance of skills using		
	<u>CAE ARES Manikin:</u>		
	Independent work or in groups of two, the student will perform an assignment utilizing the		
	CAE ARES Manikin which can consist of:		
	-Communication skills with a patient		
	-Bleeding control/treatment		
	-Wound care		
	-Burn care		
	-Case study treatment		
	The above assignment will be followed up with a log/journal entry in google classroom,		
	recording results and observations of patient assessment.		
Experiences	Hands on interaction with CAE ARES manikin and Anatomage Table		
(Virtual and live field	Suggested Guest Speaker: OHS Athletic Trainer to discuss first aid.		
trips)	Local First Aid Squad or Ambulance or an EMT or another emergency responder.		
Resources			
• Tyygerson, S. &	Thygerson A., (n.d.). First Aid, CPR, and AED Essentials, Sixth Edition, Brigham Young		
University, ISBN	-13: 9781449626624		
• Karren, K. (2012	). First aid for colleges and universities (10 <sup>th</sup> ed.). Boston: Benjamin Cummings. ISBN-13:		
9780321732590			
	ion Systems: Health Center 21: https://aeseducation.com Modules on CPR and Basic Life		
Support; Emergency Care; Bloodborne Pathogens Site contains lessons, power points, video clips,			
worksheets, activities, quiz and tests.			
	e. Being a Nursing Assistant. 8th ed. Saddle River, NJ: Prentice Hall Health, 2000. Print.		
Chapter 5-Infection Control, Chapter 6-Safety, Chapter 13-Emergency Care			
Pulliam, Jolynn, and Francine Wolgin. Workbook: Being a Nursing Assistant. 8th ed. Upper Saddle River, NJ:			
	00. Print. Chapter 5-Infection Control, Chapter 6-Safety Chapter 13-Emergency Care, can Red Cross: Unit 7, Soft Tissue Injuries -		
http://con1.classes.redcross.org/learningcontent/PHSS/PHSS/Flanker/flanker_p6/Unit7/Unit_objectives.html			
Laptops or computer     Simulations-Anatomage Table			
<ul> <li>Simulations-Anatomage Table</li> <li>CAE ARES Manikin</li> </ul>			
<ul> <li>CAE ARES Manikin</li> <li>Internet access</li> </ul>			
	<ul> <li>Internet access</li> <li>First Aid Equipment for bandaging and splints.</li> </ul>		
	<ul> <li>First Aid Equipment for bandaging and splints.</li> <li>Sample First AID kit.</li> </ul>		
<ul> <li>Soap, water and</li> </ul>			
• •	es and face masks.		
Pacing/ Time Frame:	Unit 3: Bleeding, wounds and burns: 20 class periods; 41 minutes per period.		
	sinter Electric, realize and same and sense to class periods, if initiates per period.		

Unit 4	Injuries	Grade(s)	12		
Overview/Rationale	-				
The focus of this unit is on understanding how to recognize and perform emergency care for injuries. They will also practice first aid procedures.					
New Jersey Student Learning Standards					
<ul> <li>9.3.HL.1 Determine academic subject matter, in addition to high school graduation requirements, necessary</li> </ul>					
for pursuing a health science career					
<ul> <li>9.3. HL.3 Identify existing and potential hazards to clients, co-workers, visitors and self in the healthcare workplace.</li> </ul>					
<ul> <li>9.3. HL.5 Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.</li> </ul>					
<ul> <li>9.3. LW-EFM.1 Demonstrate effective communication skills (e.g., writing, speaking, listening and nonverbal communication) while utilizing communications equipment and platforms common to emergency and fire</li> </ul>					
<ul> <li>management systems.</li> <li>9.3. LW-EFM.2 Manage an incident scene as the first responder using emergency response skills.</li> </ul>					
9.3. LW-EFM.4 Demonstrate an understanding of the objectives and a commitment to the mission of					
emergency and fire management services.					
<ul> <li>9.3. LW-EFM.5 Execute safety procedures and protocols associated with local state and federal regulations.</li> <li>9.3. LW-EFM.7 Describe the legal regulatory and organizational guidelines governing emergency and fire</li> </ul>					
management services.					
9.3. LW-EFM.9 Execute protocols for handling emergency situations that range from minor medical and fire					
-	rea-wide incidents.	lise the second second second second			
	Demonstrate the use and various app ire management services.	lications of the equipment corr	imonly used in		
Career Readiness, Life Lit					
	•	areers require specific training	skills and certification		
	<ul> <li>9.2.5.CAP.4: Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements.</li> </ul>				
<ul> <li>9.2.8.CAP.9: Analyze how a variety of activities related to career preparation (e.g., volunteering,</li> </ul>					
	<ul> <li>apprenticeships, structured learning experiences, dual enrollment, job search, scholarships) impacts</li> </ul>				
		enfolment, job search, schole			
<ul> <li>postsecondary options.</li> <li>9.2.12.CAP.2: Develop college and career readiness skills by participating in opportunities such as structured</li> </ul>					
learning experiences, apprenticeships, and dual enrollment programs.					
<ul> <li>9.2.12.CAP.6: Identify transferable skills in career choices and design alternative career plans based on those</li> </ul>					
skills.					
<ul> <li>9.4.12.Cl.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1. 12prof.CR3a).</li> </ul>					
<ul> <li>9.4.12.CI.2: Identify career pathways that highlight personal talents, skills, and abilities (e.g., 1.4.</li> </ul>					
12prof.CR2b, 2.2.12.LF.8).					
<ul> <li>9.4.12. CT.1: Identify problem-solving strategies used in the development of an innovative product or</li> </ul>					
practice (e.g., 1.1. 12acc.C1b, 2.2.12. PF.3).					
<ul> <li>9.4.12. CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving</li> </ul>					
(e.g., 1. 3E.12profCR3.a).					
<ul> <li>CRP1. Act as a responsible and contributing citizen and employee.</li> </ul>					
CRP2. Apply appropriate academic and technical skills.					
CRP3. Attend to personal health and financial well-being.					
CRP4. Communicate clearly and effectively and with reason.					
<ul> <li>CRP5. Consider the environmental, social and economic impacts of decisions.</li> </ul>					

- CRP6. Demonstrate creativity and innovation.
- CRP7. Employ valid and reliable research strategies.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP9. Model integrity, ethical leadership and effective management.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP12. Work productively in teams while using cultural global competence.

CRP12. Work productively in teams while using cultural global competence.			
Technology/Computer Science and Design Thinking	Interdisciplinary Standards		
8.1.12.A.1 Create a personal digital portfolio which reflects personal and academic interests, achievements, and career aspirations by using a variety of digital tools and resources.	NJSLSA.R1: Read closely to determine what the text says explicitly and to make logical inferences and relevant connections from it; cite specific textual		
8.1.12. D.1 Demonstrate appropriate application of copyright, fair use and/or Creative Commons to an original work.	evidence when writing or speaking to support conclusions drawn from the text.		
9.4.12.TL.1: Assess digital tools based on features such as accessibility options, capacities, and utility for accomplishing a specific task (e.g., W.11-12.6.).	NJSLSA.R4: Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning and tone		
9.4.12.TL.4: Collaborate in online learning communities or social networks or virtual worlds to analyze and propose a resolution to a real-world problem.	NJSLSA.W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.		
	NJSLSA.W5.Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.		
	NJSLSA.W6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.		
	RI.11-12.1. Accurately cite strong and thorough textual evidence, (e.g., via discussion,,written response, etc.), to support analysis of what the text says explicitly as well as inferentially, including determining where the text leaves matters uncertain.		
	RI.11-12.2. Determine two or more central ideas of a text, and analyze their development and how they interact to provide a complex analysis; provide an objective summary of the text.		
	Science HS-LS1-3. Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.		

HS-LS4-1. Communicate scientific information that
common ancestry and biological evolution are
supported by multiple lines of empirical evidence.
HS-LS4-4. Construct an explanation based on evidence for how natural selection leads to adaptation of populations.
HS-LS2-7. Design, evaluate, and refine a solution for
reducing the impacts of human activities on the
environment and biodiversity.
HS-LS2-8. Evaluate the evidence for the role of group
behavior on individual and species' chances to
survive and reproduce.
HS-LS4-1. Communicate scientific information that
common ancestry and biological evolution are
supported by multiple lines of empirical evidence.
Health 2.1.12.D.6 Demonstrate first-aid procedures,
including Basic Life Support and automatic external
defibrillation, caring for head trauma, bone and joint
emergencies, caring for cold and heat injuries, and
responding to medical emergencies.

#### Essential Question(s)

- How can a person provide proper first aid for head, spinal, chest, abdominal, and pelvic injuries?
- How does one identify a bone, joint, muscle or extremity injury?
- How can you secure an injury during an emergency?

#### Enduring Understandings

- If not treated, injuries that seem minor could become life threatening.
- Any head injury is potentially serious.
- All victims with chest injuries should have their breathing checked and rechecked.
- Bone, joint and muscle injuries are among the most common reasons to seek medical care; although rarely fatal, they often result in short- or long-term disability.

#### **Student Learning Targets/Objectives**

#### Unit 4

#### Lesson 1- Head and Spinal Injuries

- Identify and describe the care for scalp wounds, skull fracture, and brain injuries.
- Identify and describe the care for injuries affecting the eye, ear and nose.
- Identify and describe the care for dental and spinal injuries.
- Describe at least two situations when a head or spinal injury is possible and explain the importance of supporting the head and neck when a spinal injury is suspected and how to minimize movement of a victim's head and spine.
- Describe first aid for spinal injury, broken ribs, impaled objects in the chest, and sucking chest wounds, pelvic injuries, open and closed abdominal injuries, concussions, scalp, cheek, nose, eye, ear, mouth, and jaw and teeth injuries.

• Describe seven ways to prevent head and spinal injuries.

## Lesson 2-Chest, Abdominal and Pelvic Injury Emergencies

- Identify and describe the care for closed and open chest injuries; closed and open abdominal injuries; and pelvic injuries.
- Explain why chest, abdominal and pelvic injuries can be fatal.

## Lesson 3-Bone, Joint and Muscle Injuries

- Identify and describe the care for closed and open fractures; muscle injuries and joint injuries.
- Give examples of injuries that can occur to the musculoskeletal system.
- Describe the RICE procedures and how to use it.
- Identify, describe and demonstrate the care for injuries of the shoulder, elbow, hand, finger, hip joint, thigh, knee and lower leg.
- Describe and demonstrate the first aid for fractures, dislocations, sprains, strains, contusions and cramps
- Demonstrate the use of splint on an extremity.

#### Assessments

### Pre and Formative

Unit Group Scenarios and discussion Topical On-line quiz Journal writing reflection on items learned. Unit assignments Lesson quiz Wolgin Worksheet pages Wolgin Textbook Chapter Review <u>Applied Education Systems: Health Center 21</u>: https://aeseducation.com Module pre-test, worksheets and activities

### <u>Summative</u>

Unit test

On line-at the end of the semester/ Rutgers Cumulative Final Exam

### <u>Authentic</u>

Writing assignment

Project (Disaster Kit, PowerPoint on Emergency Services at local, state, etc. levels., HOSA skill performance guidelines.)

Wolgin Textbook, Critical Thinking Questions, Journal entry

Journal writing: reflection on items learned.

First Aid Skill Performance

Teaching and Learning Actions

Instructional Strategies	
	<u>Unit 4</u>
	Lesson 1-Head and Spine Injury Emergencies Ch 12- Discuss
	signs that indicate either temporary vs. permanent brain injury
	Review muscle and sensory testing that may indicate spinal
	cord injury
	Note booking/Journaling in Google Classroom:
	Many of the injuries presented and discussed in this lesson
	could occur during a sporting event. Have students write a
	scenario of an injury occurring at a sporting event. Then have

another student write a response indicating the steps that should be taken in response to the injury.

Group activities:

Divide the class into four groups. Have groups practice the steps in managing head and spinal injuries to check for spinal injuries in responsive and unresponsive victims.

Independent Assignment: One student will be assigned/select this topic to teach a 40-minute lesson and activity with class

ARES: Model, practice and perform skills learned on ARES manikin

Medical Terminology Review:

Have students research the difference between a concussion and a contusion.

Simulations-Anatomage Table-Practice knowledge of human anatomy

Complete lesson quiz

View, discuss and summarize notes: Standard First Aid, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005. Print and DVD Clips, Chapter 7.

Demonstrate and practice first aid for spinal injury.

Describe the first aid for concussions, scalp, cheek, nose, eye, ear, mouth, and jaw and teeth injuries.

Demonstrate and practice minimizing movement of a victim's head and spine.

Exit ticket: Describe seven ways to prevent head and spinal injuries.

Journal writing: reflection on items learned.

### Lesson 2-Chest Abdominal and Pelvic Emergencies

<u>Ch 13-</u> research the differences between thoracic and abdominal injuries determine differences in signs and symptoms; differences in mechanism of injury, and what organ is most involved in each type of injury with blunt trauma

Note booking/Journaling in Google Classroom: Have students research the various organs in the body to determine whether they are hollow or solid. Students can make a T-chart listing the hollow organs on one side and solids on the other.

### Group activities:

Have each person work with a partner to go through the assessment for chest injuries and abdominal injuries. One student plays the role of the first aider and the other is the victim. Students can switch before beginning the second chart.

Independent Assignment: One student will be assigned/select this topic to teach a 40-minute lesson and activity with class

Medical Terminology:

Have students use the information they found in the "Note booking/Journaling in Google Classroom" section. Have students group the organs by location. They should note whether they are found in the abdomen, chest or another location.

Complete lesson quiz View, discuss and summarize notes: Standard First Aid, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005. Print and DVD Clips, Chapter 7. Demonstrate and practice first aid for broken ribs, impaled objects in the chest, and sucking chest wounds, pelvic injuries, open and closed abdominal injuries.

Describe the first aid for concussions, scalp, cheek, nose, eye, ear, mouth, and jaw and teeth injuries.

Demonstrate and practice minimizing movement of a victim's head and spine.

Exit ticket: Describe seven ways to prevent head and spinal injuries.

Journal writing: reflection on items learned.

## Lesson 3-Bone, Joint and Muscle Emergencies

Note booking/Journaling Note booking/Journaling writing assignments in Google Classroom in Google Classroom: Have students write a three paragraph compare and contrast essay.

 $1^{st}$  paragraph: open vs. closed fractures  $2^{nd}$  paragraph: dislocations and sprains

3<sup>rd</sup> paragraph: strains and cramps.

Group activities:

Have each student work with a partner to go through the CSM steps presented in Skill Drill 14-1 and through RICE procedures for a victim who might have a fractured leg.

Independent Assignment: One student will be assigned/select this topic to teach a 40-minute lesson and activity with class

ARES: Model, practice and perform skills learned on ARES manikin

Medical Terminology Review:

Have students create flashcards containing the names of fractures on one side and a written definition and picture on the other.

Simulations-Anatomage Table-Practice knowledge of human anatomy

Complete lesson quiz

	<ul> <li>View, discuss and summarize notes: American Red Cross: Unit 8, Injuries to muscles, bones and joints.</li> <li>View, discuss and summarize notes: Standard First Aid, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005.</li> <li>Print and DVD Clips, Chapter 8.</li> <li>Explain, model and practice "RICE."</li> <li>Model and practice the use of splint on an extremity.</li> <li>Exit ticket on five new terms learned.</li> <li>Journal writing: reflection on items learned.</li> <li>Portfolio assessment critique.</li> </ul>
	<u>Lesson 4-Extremity Injuries</u> <u>Ch 14 and 15</u> : collect pictures of different fractures types and then outline their acute treatment Ch 16: map specific joint injuries to type of immobilization
	Note booking/Journaling in Google Classroom: Have students write a brief paper describing when it is appropriate to use heat, cold or both with an extremity injury. Students can report their findings to the class or hand in their paper as an individual writing assignment.
	Group activities: Have each student work with a partner to practice the RICE procedures for an injured elbow, hand, leg and ankle.
	Independent Assignment: One student will be assigned/select this topic to teach a 40-minute lesson and activity with class
	Medical Terminology Review: Have students locate visual images of contusions, strains, sprains, tendinitis, dislocations, and fractures. Then, have students write captions for each image.
	Complete lesson quiz and unit test.
Activities:	Applied Education Systems: Health Center 21: https://aeseducation.com Modules on CPR and Basic Life
	Support; Emergency Care; Bloodborne Pathogens Site
	contains lessons, power points, video clips, worksheets,
	activities, quiz and tests.
	Socratic seminar/group classroom discussion:
	Divide the class into groups of three or four, and instruct each
	on the parameters of their assignment.
	Note booking/Journaling in Google Classroom
	<u>Modeling of strategies and skills/Simulation and Hands-on</u> Learning-Skill practice/Role Play-Performance of skills using

	CAE ADES Maniking	
	<u>CAE ARES Manikin:</u>	
	Independent work or in groups of two, the student will perform	
	an assignment utilizing the CAE ARES Manikin which can consist	
	of:	
	-Communication skills with a patient	
	-Head Injury Care	
	-Spine Injury Care	
	-Fracture first aid	
	-Extremity injury first aid	
	-Dislocation first aid	
	-Sprain first aid	
	The above assignment will be followed up with a log/journal	
	entry in google classroom, recording results and observations	
	of patient assessment.	
Experiences	Hands on interaction with CAE ARES manikin and	
(Virtual and live field trips)	Anatomage Table	
	Suggested Guest Speaker: OHS Athletic Trainer to	
	discuss first aid.	
	<ul> <li>Local First Aid Squad or Ambulance or an EMT or</li> </ul>	
	another emergency responder.	
Deserves		

#### Resources

- Tyygerson, S. & Thygerson A., (n.d.). *First Aid, CPR, and AED Essentials, Sixth Edition*, Brigham Young University, ISBN-13: 9781449626624
- Karren, K. (2012). First aid for colleges and universities (10<sup>th</sup> ed.). Boston: Benjamin Cummings. ISBN-13: 9780321732590

<u>Applied Education Systems: Health Center 21</u>: https://aeseducation.com Modules on CPR and Basic Life Support; Emergency Care; Bloodborne Pathogens

Wolgin, Francine. Being a Nursing Assistant. 8th ed. Saddle River, NJ: Prentice Hall Health, 2000. Print. Chapter 5-Infection Control, Chapter 6-Safety, Chapter 13-Emergency Care

• Pulliam, Jolynn, and Francine Wolgin. Workbook: Being a Nursing Assistant. 8th ed. Upper Saddle River, NJ: Prentice Hall, 2000. Print. Chapter 5-Infection Control, Chapter 6-Safety Chapter 13-Emergency Care,

 Unit 4: American Red Cross: Unit 8, Injuries to muscles, bones and joints - <u>http://con1.classes.redcross.org/learningcontent/PHSS/PHSS/Flanker/flanker\_p6/Unit8/Unit\_objectives.htm</u> I

- Laptops or computer
- Internet access
- Simulations-Anatomage Table
- CAE ARES Manikin
- First Aid Equipment for bandaging and splints.
- Sample First AID kit.
- Soap, water and paper towels.
- Disposable gloves and face masks.

Pacing/ Time Frame:

Unit 4: Injuries: 15 class periods; 41 minutes per period.

			40
Unit 5	Sudden Illness and Poisons	Grade(s)	12
Overview/Rationale			
The focus of this unit is on unders practice first aid procedures.	tanding how to recognize sudden illness and poison	ous skin contact. They	y will also
New Jersey Student Learning Star	ıdards		
<ul> <li>9.3.HL.1 Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career</li> <li>9.3. HL.3 Identify existing and potential hazards to clients, co-workers, visitors and self in the healthcare workplace.</li> <li>9.3. HL.5 Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.</li> <li>9.3. LW-EFM.1 Demonstrate effective communication skills (e.g., writing, speaking, listening and nonverbal communication) while utilizing communications equipment and platforms common to emergency and fire management systems.</li> <li>9.3. LW-EFM.2 Manage an incident scene as the first responder using emergency response skills.</li> <li>9.3. LW-EFM.4 Demonstrate an understanding of the objectives and a commitment to the mission of emergency and fire management services.</li> <li>9.3. LW-EFM.5 Execute safety procedures and protocols associated with local state and federal regulations.</li> <li>9.3. LW-EFM.7 Describe the legal regulatory and organizational guidelines governing emergency and fire management services.</li> <li>9.3. LW-EFM.9 Execute protocols for handling emergency situations that range from minor medical and fire emergencies to area-wide incidents.</li> </ul>			
emergency and fire mana	rate the use and various applications of the equipmore gement services.		
Career Readiness, Life Literacies,	and Key Skills		
<ul> <li>9.2.5.CAP.4: Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements.</li> <li>9.2.8.CAP.9: Analyze how a variety of activities related to career preparation (e.g., volunteering, apprenticeships, structured learning experiences, dual enrollment, job search, scholarships) impacts postsecondary options.</li> <li>9.2.12.CAP.2: Develop college and career readiness skills by participating in opportunities such as structured learning experiences, apprenticeships, and dual enrollment programs.</li> <li>9.2.12.CAP.6: Identify transferable skills in career choices and design alternative career plans based on those skills.</li> <li>9.4.12.CL1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1. 12prof.CR3a).</li> <li>9.4.12.CL2: Identify career pathways that highlight personal talents, skills, and abilities (e.g., 1.4. 12prof.CR2b, 2.2.12.LF.8).</li> <li>9.4.12. CT.1: Identify problem-solving strategies used in the development of an innovative product or practice (e.g., 1.1. 12acc.C1b, 2.2.12. PF.3).</li> <li>9.4.12. CT.2: Explain the potential benefits of collaborating to enhance critical thinking and problem solving (e.g., 1.3E.12profCR3.a).</li> <li>CRP1. Act as a responsible and contributing citizen and employee.</li> </ul>			
<ul> <li>CRP2. Apply appropriate academic and technical skills.</li> <li>CRP3. Attend to personal health and financial well-being.</li> </ul>			

CRP4. Communicate clearly and effectively and with reason.
CRP5. Consider the environmental, social and economic impacts of decisions.

- CRP6. Demonstrate creativity and innovation.
- CRP7. Employ valid and reliable research strategies.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP9. Model integrity, ethical leadership and effective management.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP12. Work productively in teams while using cultural global competence.

CRP12. Work productively in teams while using cultural global competence.			
Technology/Computer Science and Design Thinking	Interdisciplinary Standards		
	Interdisciplinary StandardsNJSLSA.R1: Read closely to determine what the text says explicitly and to make logical inferences and relevant connections from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.NJSLSA.R4: Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning and tone NJSLSA.W4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.NJSLSA.W5. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.NJSLSA.W6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.RI.11-12.1. Accurately cite strong and thorough textual evidence, (e.g., via discussion, written response, etc.), to support analysis of what the text says explicitly as well as inferentially, including determining where the text leaves matters uncertain.RI.11-12.2. Determine two or more central ideas of a text, and analyze their development and how they interact to provide a complex analysis; provide an objective summary of the text.Science HS-LS1-3. Plan and conduct an investigation to provide evidence that feedback mechanisms maintain		
	provide evidence that feedback mechanisms maintain homeostasis.		
	HS-LS4-1. Communicate scientific information that common ancestry and biological evolution are supported by multiple lines of empirical evidence.		

	HS-LS4-4. Construct an explanation based on evidence for how natural selection leads to adaptation of populations.
	populations.
	HS-LS2-7. Design, evaluate, and refine a solution for
	reducing the impacts of human activities on the environment and biodiversity.
	HS-LS2-8. Evaluate the evidence for the role of group behavior on individual and species' chances to survive
	and reproduce.
	HS-LS4-1. Communicate scientific information that
	common ancestry and biological evolution are
	supported by multiple lines of empirical evidence.
	Health 2.1.12.D.6 Demonstrate first-aid procedures,
	including Basic Life Support and automatic external
	defibrillation, caring for head trauma, bone and joint
	emergencies, caring for cold and heat injuries, and
	responding to medical emergencies.
Facential Question(a)	

#### Essential Question(s)

- How does one identify the different types of sudden illness?
- How does a person determine if a substance is a poison?
- How does a person provide first aid for animal bites?

### **Enduring Understandings**

- Sudden illness is often associated with a decrease in a person's alertness and responsiveness caused by brain injury and lack of either oxygen or glucose reaching the brain, which can be assessed using the mnemonic STOP.
- Anything that can harm someone if it is used the wrong way, by the wrong person or used in the wrong way is a poison.
- Animal bite concerns include immediate tissue damage and later infections from microorganisms.

### **Student Learning Targets/Objectives**

### <u>Unit 5</u>

# Lesson 1-Sudden Illness Emergencies

- Use the mnemonic STOP (Sugar low/ Seizure/Stroke/Shock; Temperature; Oxygen; Poisoning/pressure on the brain) to describe five signals of sudden illness.
- Recognize the difference between someone suffering from a heart attack and cardiac arrest.
- Identify and describe the care necessary for a stroke or heart attack victim or a person suffering from angina.
- Explain how to use the mnemonic FAST (Facial drooping, Arm weakness, Speech difficulty, Time) for someone having a Stroke.
- Identify and describe the care necessary for a victim suffering from asthma; hyperventilation or chronic obstructive pulmonary disease (COPD).
- Identify and describe the care necessary for a victim experiencing the following: fainting, diabetic emergency, seizures, abdominal pain, nausea and vomiting, diarrhea and constipation.

## Lesson 2-Emergency First Aid for Poisoning and Misuse of Substances

- Define a poison and the four ways it can enter the body and recognize the signs of ingested poisoning and describe how to administer care for victims.
- Recognize the signs of alcohol intoxication and describe how to administer care for victims.
- Classify different types of drugs and recognize the signs of drug use and describe how to administer care for users.
- Recognize the signs of carbon monoxide poisoning and describe how to administer care for victims.
- Describe and recognize the effects of poison ivy, poisons oak and poison sumac, and the stinging nettle, and how to administer care for victims.
- Demonstrate how to call 911 and the Poison Control Center for a poison victim
- Create a list of questions that need to be answered if poisoning is suspected.
- Create a list of five factors to prevent poisonings and five factors to prevent unintentional misuse or abuse of alcohol or drugs.

### Lesson 3-Emergency First Aid for Bites and Stings

- Define rabies and identify a possibly rabid animal.
- Recognize and describe the care for victims of human and animal bites, snake bites and insect bites.
- Describe the black widow spider, brown recluse spider, tarantula and recognize and describe the care from its bite or embedded hairs if applicable.
- Recognize and describe the care for victims of a common aggressive house spider bite.
- Describe the scorpion, and recognize and describe the care from its sting.
- Recognize and describe the care for victims of bites from the following: mosquito, tick bite, shark, barracuda or moray eel sting, other marine stings, animals, snakes, humans, bees, wasps or scorpions.

# Assessments

## Pre and Formative

Unit Group Scenarios and discussion **Topical On-line quiz** Journal writing reflection on items learned. Unit assignments Lesson quiz Wolgin Worksheet pages Wolgin Textbook Chapter Review Applied Education Systems: Health Center 21: https://aeseducation.com Module pre-test, worksheets and activities Summative Unit test Online Rutgers, Final Exam Authentic Writing assignment Project (Disaster Kit, PowerPoint on Emergency Services at local, state, etc. levels., HOSA skill performance guidelines.) Wolgin Textbook, Critical Thinking Questions, Journal entry Journal writing: reflection on items learned. First Aid Skill Performance **Teaching and Learning Actions** Instructional Strategies Unit 5 Lesson 1-Sudden Illness Emergencies

Note booking/Journa	ing in Google	Classroom:
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Have students write about a time when they experienced one or more of the illnesses mentioned in this lesson. Students should include the signs, symptoms experienced, as well as the ways they treated their illness. If they have not suffered from any of these illnesses, have them write about someone they know who has.

# Group activities:

In groups, give each student a card labeled with an illness. Remind students to keep their cards hidden. Have each student role play their illness, acting out the symptoms, while other members try to guess which illness they have. Then, each group can treat the sick member based on the identified illness.

Independent Assignment: One student will be assigned/select this topic to teach a 40-minute lesson and activity with class

Medical Terminology Review:

Have students research the difference between a heart attack and a cardiac arrest. Simulations-Anatomage Table-Practice knowledge of human anatomy, cardiovascular system.

Complete lesson quiz.

View, discuss and record notes from American Red Cross: Unit 4, Sudden Illness. Do Now: list five signals of sudden illness.

Demonstrate and practice the care necessary for a fainting victim.

Demonstrate and practice the care necessary for a diabetic emergency.

Demonstrate and practice the care necessary for seizures.

Demonstrate and practice the care necessary for stroke victims.

View, discuss and summarize notes from Standard First Aid, CPR, and AED. New York, NY: McGraw-Hill Higher Education, 2005. Print and DVD Clips, Sudden Illness Emergencies.

Zigzag read the Wolgin textbook 289 to 290 and summarized notes. Complete Wolgin. Workbook: Ch 13 on corresponding topic area. Exit ticket- sentences on five new terms Journal writing: reflection on items learned.

# Lesson 2-Emergency First Aid for Poisoning and Misuse of Substances

Ch 18- List some commonly found poisons and their antidotes Note booking/Journaling in Google Classroom: Have students divide their paper into quadrants, labeling each square with a form of poison (solid, liquid, sprays and gases). Have students investigate online and in their home, various poisonous substances and record them in the appropriate quadrant.

Group activities:

Break students into groups of three and have each member take turns acting out the effects of different drugs, while the group members try to recognize the drug's effects. Each group member should have a turn acting out the effects of drugs.

Independent Assignment: One student will be assigned/select this topic to teach a
40-minute lesson and activity with class
ARES: Model, practice and perform skills learned on ARES manikin
Medical Terminology
Have students locate visual images of poison ivy, oak, sumac and stinging nettle.
Then, have students write captions/labels for each image and describe the effects
of each plant on human skin.
Complete lesson quiz.
Zigzag read the Walgin toutheak 202 to 205 and summarized nates
Zigzag read the Wolgin textbook 293 to 295 and summarized notes.
Complete Wolgin. Workbook: Ch 13 on corresponding topic area. View, discuss and summarize notes from Standard First Aid, CPR, and AED. New
York, NY: McGraw-Hill Higher Education, 2005. Print and DVD Clips, Chapter 10.
Model and practice how to call 911 and the Poison Control Center for a poison
victim.
Create a first aid fact sheet for swallowed or inhaled poisons or an apparent drug
or alcohol overdose or for poison ivy, oak and sumac.
Do Now: Create a list of five factors to prevent poisonings.
Do Now: Create a list of five factors to prevent unintentional misuse or abuse of
alcohol or drugs.
Journal writing: reflection on items learned.
Lesson 3-Emergency First Aid for Bites and Stings
Ch 19- Identify locally found insects/animals and treatment for their bites
Note booking/Journaling in Google Classroom:
Have students research and write a one-page paper describing Africanized (killer)
bees, describing their origin and migration into the U.S. Also, they should write
about treatment for Africanized bee stings.
Group activities:
Break the class into groups of three. Prepare index cards with signs and symptoms
of either an animal or human bite, insect sting, spider bite or marine mammal bite.
One index card to a group. Have students research the symptoms to determine
the type of bite or sting and determine a course of action. Other class members
can agree or disagree with the group's conclusion.
Independent Assignment: One student will be assigned/select this topic to teach a
40-minute lesson and activity with class
Medical Terminology Review:
Have students research and create a list of marine animals that have nematocysts.
have stadents research and create a list of marme animals that have hematocysts.
Complete lesson quiz and unit test.
Zigzag read the Wolgin textbook 293 to 295 and summarized notes.
Complete Wolgin. Workbook: Ch 13 on corresponding topic area.
View, discuss and summarize notes from Standard First Aid, CPR, and AED. New
York, NY: McGraw-Hill Higher Education, 2005. Print and DVD Clips, Chapter 10.

	Create a first aid fact sheet for an animal bite, snake bite, human bite, spider bite, tick bite, bee or wasp sting, scorpion sting. Journal writing: reflection on items learned.
Activities:	<u>Applied Education Systems: Health Center 21</u> : https://aeseducation.com Modules on CPR and Basic Life Support; Emergency Care; Bloodborne Pathogens Site contains lessons, power points, video clips, worksheets, activities, quiz and tests.
	Modeling of strategies and skills/Simulation and Hands-on Learning-Skill practice/Role Play-Performance of skills using CAE ARES Manikin: Independent work or in groups of two, the student will perform an assignment utilizing the CAE ARES Manikin which can consist of: -Communication skills with a patient -First Aid for bites, stings -Practice Vital Sign skills: blood pressure, pulse, respirations -Case study treatment: Identify drug overdose; Identify poison; Identify stroke -Pupil condition observation The above assignment will be followed up with a log/journal entry in google classroom, recording results and observations of patient assessment.
Experiences (Virtual and live field trips)	<ul> <li>Hands on interaction with CAE ARES manikin</li> <li>Suggested Guest Speaker: OHS Athletic Trainer to discuss first aid.</li> <li>Local First Aid Squad or Ambulance or an EMT or another emergency responder.</li> </ul>

- Tyygerson, S. & Thygerson A., (n.d.). *First Aid, CPR, and AED Essentials, Sixth Edition*, Brigham Young University, ISBN-13: 9781449626624
- Karren, K. (2012). *First aid for colleges and universities (10<sup>th</sup> ed.).* Boston: Benjamin Cummings. ISBN-13: 9780321732590
- <u>Applied Education Systems: Health Center 21</u>: https://aeseducation.com Modules on CPR and Basic Life Support; Emergency Care; Bloodborne Pathogens
- Wolgin, Francine. Being a Nursing Assistant. 8th ed. Saddle River, NJ: Prentice Hall Health, 2000. Print. Chapter 5-Infection Control, Chapter 6-Safety, Chapter 13-Emergency Care
- Pulliam, Jolynn, and Francine Wolgin. Workbook: Being a Nursing Assistant. 8th ed. Upper Saddle River, NJ: Prentice Hall, 2000. Print. Chapter 5-Infection Control, Chapter 6-Safety Chapter 13-Emergency Care,
- Unit 5: American Red Cross: Unit 4, Sudden Illness -<u>http://con1.classes.redcross.org/learningcontent/PHSS/PHSS/Flanker/flanker\_p6/Unit5/Unit\_objectives.html</u>
- Unit 5: American Red Environmental Emergencies Unit 6. http://con1.classes.redcross.org/learningcontent/PHSS/PHSS/Flanker/flanker\_p6/Unit6/heat\_related\_illnesse s.html
- Unit 5: Heat Stroke online quiz http://www.urmc.rochester.edu/encyclopedia/document.aspx?ContentTypeID=40&ContentID=HeatStrokeHe atStrokeQuiz
- Unit 5: Hypothermia On line quiz <u>http://www.urmc.rochester.edu/encyclopedia/document.aspx?ContentTypeID=40&ContentID=Hypothermia</u> <u>Quiz</u>
- Laptops or computer
- Internet access

- Simulations-Anatomage Table
- CAE ARES Manikin
- First Aid Equipment for bandaging and splints.
- Soap, water and paper towels.
- Disposable gloves and face masks.

Pacing/ Time Frame:	Unit 5: Sudden Illness and Poisons: 15 class periods; 41 minutes per period.

Unit 6	Exposure and Rescue	Grade(s)	12	
<b>Overview/Rationale</b>				
	on understanding how to recognize and treat victims with l ccidents, mental illness and abuse. They will also practice		ies, as well	
New Jersey Student Lea	rning Standards			
<ul> <li>9.3.HL.1 Determine academic subject matter, in addition to high school graduation requirements, necessary for pursuing a health science career</li> <li>9.3. HL.3 Identify existing and potential hazards to clients, co-workers, visitors and self in the healthcare workplace.</li> <li>9.3. HL.5 Analyze the legal and ethical responsibilities, limitations and implications of actions within the healthcare workplace.</li> <li>9.3. LW-EFM.1 Demonstrate effective communication skills (e.g., writing, speaking , listening and nonverbal communication) while utilizing communications equipment and platforms common to emergency and fire management systems.</li> <li>9.3. LW-EFM.2 Manage an incident scene as the first responder using emergency response skills.</li> <li>9.3. LW-EFM.4 Demonstrate an understanding of the objectives and a commitment to the mission of emergency and fire management services.</li> <li>9.3. LW-EFM.5 Execute safety procedures and protocols associated with local state and federal regulations.</li> <li>9.3. LW-EFM.7 Describe the legal regulatory and organizational guidelines governing emergency and fire management services.</li> <li>9.3. LW-EFM.9 Execute protocols for handling emergency situations that range from minor medical and fire emergencies to area-wide incidents.</li> </ul>				
	fire management services.			
Career Readiness, Life Li				
	lain the reasons why some jobs and careers require specific	-	tification	
	, child care, medicine, education) and examples of these re			
	alyze how a variety of activities related to career preparatio		-	
	apprenticeships, structured learning experiences, dual enrollment, job search, scholarships) impacts			
<ul> <li>postsecondary options.</li> <li>9.2.12.CAP.2: Develop college and career readiness skills by participating in opportunities such as structured learning experiences, apprenticeships, and dual enrollment programs.</li> </ul>				
<ul> <li>9.2.12.CAP.6: Identify transferable skills in career choices and design alternative career plans based on those skills.</li> </ul>				
<ul> <li>9.4.12.Cl.1: Demonstrate the ability to reflect, analyze, and use creative skills and ideas (e.g., 1.1. 12prof.CR3a).</li> </ul>				
• 9.4.12.Cl.2: Identify career pathways that highlight personal talents, skills, and abilities (e.g., 1.4. 12prof.CR2b, 2.2.12.LF.8).				
• 9.4.12. CT.1: Identify problem-solving strategies used in the development of an innovative product or practice (e.g., 1.1. 12acc.C1b, 2.2.12. PF.3).			or practice	
<ul> <li>9.4.12. CT.2: Exp (e.g., 1. 3E.12pr)</li> </ul>	plain the potential benefits of collaborating to enhance criti of CR3.a).	cal thinking and problem	n solving	
<ul> <li>CRP1. Act as a responsible and contributing citizen and employee.</li> <li>CRP2. Apply appropriate academic and technical skills.</li> <li>CRP3. Attend to personal health and financial well-being.</li> </ul>				

- CRP4. Communicate clearly and effectively and with reason.
- CRP5. Consider the environmental, social and economic impacts of decisions.

- CRP6. Demonstrate creativity and innovation.
- CRP7. Employ valid and reliable research strategies.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP9. Model integrity, ethical leadership and effective management.
- CRP10. Plan education and career paths aligned to personal goals.
- CRP11. Use technology to enhance productivity.
- CRP12. Work productively in teams while using cultural global competence.

CRP12. Work productively in teams while using culture in teams while	<b>Č</b>
Technology/Computer Science and Design Thinking	Interdisciplinary Standards
8.1.12.A.1 Create a personal digital portfolio which reflects personal and academic interests, achievements, and career aspirations by using a variety of digital tools and resources.	NJSLSA.R1. Read closely to determine what the text says explicitly and to make logical inferences and relevant connections from it; cite specific textual evidence when
8.1.12. D.1 Demonstrate appropriate application of	writing or speaking to support conclusions drawn from the text.
copyright, fair use and/or Creative Commons to an original	
work.	NJSLSA.R4. Interpret words and phrases as they are used in a text, including determining technical,
9.4.12.TL.1: Assess digital tools based on features such as accessibility options, capacities, and utility for accomplishing a specific task (e.g., W.11-12.6.).	connotative, and figurative meanings, and analyze how specific word choices shape meaning and tone
	NJSLSA.W4: Produce clear and coherent writing in
9.4.12.TL.4: Collaborate in online learning communities or social networks or virtual worlds to analyze and propose a	which the development, organization, and style are appropriate to task, purpose, and audience.
resolution to a real-world problem.	NJSLSA.W5. Develop and strengthen writing as needed by planning, revising, editing,
	rewriting, or trying a new approach.
	NJSLSA.W6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.
	RI.11-12.1. Accurately cite strong and thorough textual evidence, (e.g., via discussion, written response, etc.), to support analysis of what the text says explicitly as well as inferentially, including determining where the text leaves matters uncertain.
	RI.11-12.2. Determine two or more central ideas of a text, and analyze their development and how they interact to provide a complex analysis; provide an objective summary of the text.
	Science HS-LS1-3. Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.
	HS-LS4-1. Communicate scientific information that
	common ancestry and biological evolution are
	supported by multiple lines of empirical evidence.

HS-LS4-4. Construct an explanation based on evidence for how natural selection leads to adaptation of populations.
HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.
HS-LS2-8. Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.
HS-LS4-1. Communicate scientific information that common ancestry and biological evolution are supported by multiple lines of empirical evidence.
Health 2.1.12.D.6 Demonstrate first-aid procedures, including Basic Life Support and automatic external defibrillation, caring for head trauma, bone and joint emergencies, caring for cold and heat injuries, and
responding to medical emergencies.

### **Essential Question(s)**

- How does one determine the proper first aid for cold and hot related emergencies?
- How does one properly rescue and move victims around water, eclectic and hazardous materials?
- How do you stabilize an injury?

#### **Enduring Understandings**

- Stopping further heat loss, getting the victim out of the cold and handling the victim gently are steps to take by all cold-related victims while assessing their symptoms for mild or severe hypothermia.
- Heat-related emergency care starts by identifying if the person has heat exhaustion or heatstroke.
- Reach-throw-row-go identifies the sequence for attempting a water rescue
- All injured parts should be stabilized before and during moving.

## Student Learning Targets/Objectives

### <u>Unit 6</u>

### Lesson 1-Emergency First Aid for Cold Related Exposure to the Elements

- <u>Ch 20 and 21:</u> Compare and contrast cold vs heat injuries and describe how body temperature is controlled and how the body reacts to cold.
- List and describe the four ways the body loses heat and describe the factors that make people more or less susceptible to cold.
- Describe how altitude, water, and wind all affect body temperature.
- Recognize the signs of freezing and unfreezing emergencies and describe how to administer care.
- Explain the signals of dehydration, frostbite and hypothermia and describe the first aid.

### Lesson 2-Emergency First Aid for Heat Related Exposure to the Elements

- Ch 21: Research the deleterious effects of electrolyte imbalances, hypo- and hypernatremia, hypo- and hyperkalemia
- Describe how body temperature is controlled and how the body stays cool and describe what electrolytes are, how the body uses them and the best way to replace them.
- Describe the effects of humidity on the body and explain the signals of heat exhaustion and heat stroke.

• Differentiate between the signs of heat cramps, heat exhaustion and heat stroke and describe the first aid.

## Lesson 3-Rescuing and Moving Victims/Mental Disorders and Abuse

- <u>Ch 22:</u> Outline abnormal deliveries and their emergency treatments
- Ch 23: Research the internet for interviews of patients with a variety of mental health disorders (bipolar disorder, depression, schizophrenia), record similarities and differences.
- Discuss the physical presentations suggestive of child abuse
- Describe the steps in reach-throw-row-go in a water rescue.
- Define near-drowning and list the different types of drowning and how to care for near-drowning victims.
- Describe the hazards of a cold-water immersion and the factors involved in the speed at which a person cools down.
- Describe the heat lessening position for one or more victims.
- Describe an ice rescue for victims both close to and away from the shore.
- Describe the factors involved in an electrical emergency rescue.
- List the warning signs of hazardous materials.
- Describe how to give aid in a motor vehicle crash.
- Describe what to do should you encounter a fire.
- Describe how to handle threatening dogs and farm animals at the scene of an emergency.
- Define triage and the four classifications of an injured victim.
- Describe the guideline for moving victims and perform emergency and non-emergency moves on injured victims.

#### Assessments

## Pre and Formative

Unit Group Scenarios and discussion Topical On-line guiz

Journal writing reflection on items learned.

Unit assignments

Lesson quiz

Wolgin Worksheet pages

Wolgin Textbook Chapter Review

Applied Education Systems: Health Center 21: https://aeseducation.com Module pre-test, worksheets and activities

### <u>Summative</u>

Unit test

Online Rutgers, Final Exam

# <u>Authentic</u>

Writing assignment

Project (Disaster Kit, PowerPoint on Emergency Services at local, state, etc. levels., HOSA skill performance guidelines.)

Wolgin Textbook, Critical Thinking Questions, Journal entry

Journal writing: reflection on items learned.

First Aid Skill Performance for hot and cold related emergencies, drowning, car accidents, etc.

Teaching and Learning Actions	
Instructional Activities	Unit 6 Lesson 1-Emergency First Aid for Cold Related Exposure to the Elements Note booking/Journaling in Google Classroom: Have students write a one-page paper describing the terms trench and immersion foot, also describe the term's origination and how those terms apply to the injuries they describe.
	Group activities:

Have each student work with a partner to research wind chill and
determine the wind chill factor on a particular day and the amount of
time it would take for frostbite to set in, on exposed skin.
Independent Assignment: One student will be assigned/select this topic
to teach a 40-minute lesson and activity with class
Medical Terminology Review:
Have students research the differences between frostbite and frostnip as
well as the differences in how they should be treated.
Complete lesson quiz.
View, discuss and summarize notes from American Red Cross
Environmental Emergencies – Unit 6.
Complete Hypothermia online quiz.
Exit ticket: sentences on five new terms learned.
Journal writing: reflection on items learned.
Portfolio assessment critique.
Complete online American Red Cross course assessment.
Lesson 2-Emergency First Aid for Heat Related Exposure to the Elements
Note booking/Journaling in Google Classroom:
Have students research other heat illnesses such as heat syncope, heat
edema, and prickly heat and write a one-page paper describing the
symptoms of each heat illness and the proper care for each.
Group activities:
Have each student work with two partners to present symptoms of either
heat cramps, exhaustion or heat stroke. Have other students first
determine the heat illness affecting the victim, and then the treatment
needed.
Independent Assignment: One student will be assigned/select this topic
to teach a 40-minute lesson and activity with class
Medical Terminology Review:
Have students research the meaning of thermoregulation and what the
body does naturally to regulate its temperature.
Complete lesson quiz.
View, discuss and summarize notes from American Red Environmental
Emergencies – Unit 6.
Complete Heat Stroke online quiz.
Exit ticket: sentences on five new terms learned.
Journal writing: reflection on items learned.
Portfolio assessment critique.
Lesson 3-Rescuing and Moving Victims

	Independent work or in groups of two, the student will perform an assignment utilizing the CAE ARES Manikin which can consist of: -Communication skills with a patient
	<u>CAE ARES Manikin:</u>
	activities, quiz and tests.
Activities, cont.:	Applied Education Systems: Health Center 21: https://aeseducation.com Modules on CPR and Basic Life Support; Emergency Care; Bloodborne Pathogens Site contains lessons, power points, video clips, worksheets,
	Complete lesson quiz and unit test. Complete AHA final exam.
	Medical Terminology Review: Have students research cases of dry drawings, wet drowning and secondary drowning.
	Group activities: Have each student practice the emergency and non-emergency moves, using blankets, poles and a longboard if available. Independent Assignment: One student will be assigned/select this topic to teach a 40-minute lesson and activity with class
	Google Classroom in Google Classroom: Have students write a narrative involving an emergency rescue. In their story, students should include how the emergency occurred, how they rescued or attempted to rescue the victim, and the outcome of the emergency situation.

• Tyygerson, S. & Thygerson A., (n.d.). *First Aid, CPR, and AED Essentials, Sixth Edition,* Brigham Young University, ISBN-13: 9781449626624

- Karren, K. (2012). *First aid for colleges and universities (10<sup>th</sup> ed.).* Boston: Benjamin Cummings. ISBN-13: 9780321732590
- Applied Education Systems: Health Center 21: aeseducation.com Modules on CPR and Basic Life Support; Emergency Care; Bloodborne Pathogens Site contains lessons, power points, video clips, worksheets, activities, quiz and tests.

•	Unit 6: American Red Cross, Online Course Test;		
	http://con1.classes.redcross.org/learningcontent/PHSS/PHSS/Flanker/flanker_p6/index.htm		
•	Laptops or computer		
•	Internet access		
•	Simulations-Anatomage Table		
٠	CAE ARES Manikin		
•	CPR Mannequins and face shields		
•	<ul> <li>First Aid Equipment for bandaging and splints.</li> </ul>		
•	Sample AED device.		
•	Sample First AID kit.		
•	Sample choking mannequin.		
٠	<ul> <li>Soap, water and paper towels and disposable gloves and face masks.</li> </ul>		
Pacing/	' Time Frame:	Unit 6: Exposure and Rescue: 15 class periods; 41 minutes per period.	