



## HEALTHCARE SCIENCE

**COURSE:** 25.561 Nursing Essentials

**UNIT:** 14.1 Cardiovascular System Disorders and Nursing Care



## INTRODUCTION

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**Annotation:**

In this unit students will identify three diseases related to the circulation/cardiovascular system. Recall three nursing assistant skills for working with patients with a cardiovascular system disease and or disorder.

**Grade(s):**

<input type="checkbox"/>	9 <sup>th</sup>
<input type="checkbox"/>	10 <sup>th</sup>
<input checked="" type="checkbox"/>	11 <sup>th</sup>
<input checked="" type="checkbox"/>	12 <sup>th</sup>

**Time:**

Three 50 minute periods

**Author:**

Pat Rutherford, RN EdS

**Additional Author(s):**

**Students with Disabilities:**

For students with disabilities, the instructor should refer to the student's IEP to be sure that the accommodations specified are being provided. Instructors should also familiarize themselves with the provisions of Behavior Intervention Plans that may be part of a student's IEP. Frequent consultation with a student's special education instructor will be beneficial in providing appropriate differentiation.



## FOCUS STANDARDS

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### **GPS Focus Standards:**

#### **HS-NE-12:**

**The student will perform basic nursing assistant skills within the scope of practice for a nursing assistant while maintaining resident rights. Beginning and ending procedures actions will be performed with all resident care**

- a.** Measure and record vital signs including blood pressure using manual and electronic equipment
- d.** Demonstrate understanding of body systems while recognizing abnormal changes in body function and reporting changes to supervisor

#### **CTAE-FS-2**

**Academic Foundations: Learners achieve state academic standards at or above grade level.**

### **GPS Academic Standards:**

### **National / Local Standards / Industry / ISTE:**



## UNDERSTANDINGS & GOALS

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### **Enduring Understandings:**

- Describe at least 3 disease of the circulatory system.
- Recall nursing skills related to assisting patients with circulatory diseases
- Apply antiembolic stockings and or hose

### **Essential Questions:**

- What diseases are related to the cardiovascular system?

### **Knowledge from this Unit:**

### **Skills from this Unit:**

- Recognize 3 symptoms of three diseases related to the circulatory system.
- Recall nursing skills related to patients with circulatory diseases.



# ASSESSMENT(S)

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## Assessment Method Type:

- ☐ Pre-test
- ☒ Objective assessment - multiple-choice, true- false, etc.
  - ☒ Quizzes/Tests
  - ☐ Unit test
- ☐ Group project
- ☐ Individual project
- ☐ Self-assessment - May include practice quizzes, games, simulations, checklists, etc.
  - ☐ Self-check rubrics
  - ☐ Self-check during writing/planning process
  - ☐ Journal reflections on concepts, personal experiences and impact on one's life
  - ☐ Reflect on evaluations of work from teachers, business partners, and competition judges
  - ☐ Academic prompts
  - ☐ Practice quizzes/tests
- ☒ Subjective assessment/Informal observations
  - ☐ Essay tests
  - ☐ Observe students working with partners
  - ☐ Observe students role playing
- ☐ Peer-assessment
  - ☐ Peer editing & commentary of products/projects/presentations using rubrics
  - ☐ Peer editing and/or critiquing
- ☐ Dialogue and Discussion
  - ☐ Student/teacher conferences
  - ☐ Partner and small group discussions
  - ☐ Whole group discussions
  - ☐ Interaction with/feedback from community members/speakers and business partners
- ☐ Constructed Responses
  - ☐ Chart good reading/writing/listening/speaking habits
  - ☐ Application of skills to real-life situations/scenarios
- ☐ Post-test

## Assessment(s) Title:

Circulatory System Disease Test

## Assessment(s) Description/Directions:

## Attachments for Assessment(s):



# LEARNING EXPERIENCES

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## Sequence of Instruction

### 1. Identify the Standards. Standards should be posted in the classroom for each lesson.

HS-NE-12: The student will perform basic nursing assistant skills within the scope of practice for a nursing assistant while maintaining resident rights. Beginning and ending procedures actions will be performed with all resident care

- a. Measure and record vital signs including blood pressure using manual and electronic equipment
- d. Demonstrate understanding of body systems while recognizing abnormal changes in body function and reporting changes to supervisor

CTAE-FS-2 Academic Foundations: Learners achieve state academic standards at or above grade level.

### 2. Review Essential Questions.

- What diseases are related to the cardiovascular system?

### 3. Identify and review the unit vocabulary.

### 4. Assessment Activity.

- a) Review the Circulatory Outline
- b) May use the crossword puzzle for review
- c) Review and Lecture Disorders of the Cardiovascular during lecture, can have the students fill in the cardiovascular worksheet of disease and signs and symptoms
- d) Have students explore the websites for additional information
- e) Demonstrate the application of antiembolism hose
- f) Practice for the students "Applying Antiembolism Hose "
- g) Follow the guidelines on the outline, teacher may select to develop and or use their own check-off sheet.
- h) Test of the Cardiovascular Diseases

## Attachments for Learning Experiences:

**Notes & Reflections:** The teacher can adapt this lesson plan as it best fits into their classroom



## CULMINATING PERFORMANCE TASK (Optional)

### Culminating Unit Performance Task Title:

Review Vital Signs Unit Plan

Follow the guidelines to apply Antiembolic stockings/hose

### Culminating Unit Performance Task Description/Directions/Differentiated

Go to the V/S Unit Plan and retrieve the check-off sheets

### Attachments for Culminating Performance Task

- Found on the Vital Signs Lesson Plan
- Steps are at the bottom of the Diseases of the Circulatory System outline



## UNIT RESOURCES

### Web Resources:

- <http://deptets.fvtc.edu/nursing/> review lesson # 66 Circulatory Diseases
- <http://www.nlm.nih.gov/medlineplus/tutorial.html> Learn about Diseases, test and prevention website
- <http://www.proteacher.com/110074.shtml> Lesson plan site for the Circulatory System and counting the heart rate
- <http://www.nlm.nih.gov/medlineplus/peripheralvasculardiseases.html>
- Arterial & Vascular Diseases

### Attachment(s):

### Materials & Equipment:

### What 21st Century Technology was used in this unit:

<input type="checkbox"/>	Slide Show Software	<input type="checkbox"/>	Graphing Software	<input type="checkbox"/>	Audio File(s)
<input type="checkbox"/>	Interactive Whiteboard	<input type="checkbox"/>	Calculator	<input type="checkbox"/>	Graphic Organizer
<input type="checkbox"/>	Student Response System	<input type="checkbox"/>	Desktop Publishing	<input type="checkbox"/>	Image File(s)
<input type="checkbox"/>	Web Design Software	<input type="checkbox"/>	Blog	<input type="checkbox"/>	Video
<input type="checkbox"/>	Animation Software	<input type="checkbox"/>	Wiki	<input type="checkbox"/>	Electronic Game or Puzzle Maker
<input type="checkbox"/>	Email	<input checked="" type="checkbox"/>	Website		