



## HEALTHCARE SCIENCE

**COURSE:** 25.561 Nursing Essentials

**UNIT:** 12.1 Endocrine System



## INTRODUCTION

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**Annotation:**

In this unit students will review the endocrine system and focus on care of diabetic residents. Students will examine how other body systems are affected by diabetes and the role of the nursing assistant in providing care. A diabetes quiz is included.

**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:**

One 50 minute period

**Author:**

Libbye Sills, RN Med

Phyllis Dumas

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

- d. Demonstrate understanding of body systems while recognizing abnormal changes in body function and reporting changes to supervisor**

### **GPS Academic Standards:**

**SAP1:** Students will analyze anatomical structures in relationship to their physiological functions

**SAP3:** Students will assess the integration and coordination of body functions and their dependence on the endocrine and nervous systems to regulate physiological activities.

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



## UNDERSTANDINGS & GOALS

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### **Enduring Understandings:**

- Anatomical structures of the endocrine system
- How diabetes affects the body and the care required.

### **Essential Questions:**

- How do I help care for a diabetic resident?

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

- The independent functioning of the endocrine system.
- How diabetes affects the body and the nursing care required.

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

- Observe and report abnormal changes in caring for a diabetic resident
- Assist in providing care for a diabetic patient
- Demonstrate techniques to monitor blood glucose level



# 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:

Caring for a Resident with Diabetes Quiz

## 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 skills within the scope of practice for a nursing assistant while maintaining resident rights. Beginning and ending procedures will be performed with all resident care.

SAP1: Students will analyze anatomical structures in relationship to their physiological functions

SAP3: Students will assess the integration and coordination of body functions and their dependence on the endocrine and nervous systems to regulate physiological activities.

### 2. Review Essential Questions.

- How do I help care for a diabetic resident?

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

### 4. Assessment Activity.

#### Students will:

- Review anatomy of endocrine system
- Review function of the pancreas
- Complete assigned worksheet on how diabetes can affect other body systems

#### Teacher will:

- Review anatomy of endocrine system, and discuss the pancreas and diabetes mellitus. Use multimedia presentation
- In small groups have students research how diabetes can affect the cardiovascular, urinary, special sense, nervous and immune systems and share their findings
- If time permits, allow students to test their blood glucose

## Attachments for Learning Experiences:

### Notes & Reflections:

- [Multi-media presentation lecture notes](#) may be added to if you desire to include more disorders of the endocrine system, for additional review refer to the Endocrine System unit in the Applications of Therapeutic Services course.
  - There is a hyperlink on the multi-media lecture presentation – it comes from the [www.gps.org](http://www.gps.org) website under video-streaming.



## UNIT RESOURCES

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### Web Resources:

- Online Endocrine System Review at <http://www.zerobio.com/quiz9.htm>

### Attachment(s):

### Materials & Equipment:

- Textbook
- Multi-media presentation
- Worksheets
- Blood glucose monitor
- Blood glucose monitor strips
- Alcohol pads
- Lancets
- Internet
- Diagrams online [http://msjensen.cehd.umn.edu/webanatomy/endocrine/endo\\_glands\\_1\\_s.html](http://msjensen.cehd.umn.edu/webanatomy/endocrine/endo_glands_1_s.html)
- Online Anatomy units <http://www.murrayschools.org/MHS/chartman/anatomy/resources.html>

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

<input checked="" 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		

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