



# INSTRUCTIONAL PACKAGE

PNR 130

Medical/Surgical Nursing II

201920  
Spring/2020

# INSTRUCTIONAL PACKAGE

## Part I: Course Information

Effective Term: 201920.

COURSE PREFIX: PNR 130

COURSE TITLE: Medical/Surgical Nursing II

CONTACT HOURS: 9.0

CREDIT HOURS: 5.0

### **RATIONALE FOR THE COURSE:**

To provide the knowledge base necessary for the nursing care of individuals with disorders of the respiratory, cardiovascular, hematologic and lymphatic, and endocrine systems, and to reinforce the theory and practice of medication administration. To provide for the transference and utilization of the acquired knowledge base into the clinical setting by providing nursing care to individuals with these stated conditions or illnesses.

### **COURSE DESCRIPTION:**

This course is a continuation of the study of the nursing process. Concepts include physiological, psychosocial, nutritional and health and safety needs of the adult. Clinical experiences address selected commonly occurring health problems having predictable outcomes.

### **PREREQUISITES/CO-REQUISITES:**

PNR 110, PNR 120, BIO 210, MAT 155

### **REQUIRED MATERIALS:**

Please visit the Bookstore online site for most current textbook information. Use the direct link below to find textbooks.

[BOOKSTORE](#).

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

### **ADDITIONAL REQUIREMENTS:**

HGTC Nursing Uniform (see Nursing Department Handbook for specifications)

Current CPR for the Health Care Provider Certification (must remain current for the duration of enrollment in the nursing program)

Professional liability insurance (included in tuition)

Current South Carolina State Law Enforcement Division background check  
Complete compliance with the current Student Health Report, including all required documentation in Student Tracker (must remain current throughout enrollment in the Practical Nursing Program)  
Stethoscope of good quality  
Wrist watch (with second hand)  
HGTC Student picture ID badge  
HGTC library card

### **TECHNICAL REQUIREMENTS:**

Access to Desire2Learn (D2L), HGTC's student portal for course materials.  
WaveNet and D2L email access.  
Calculator

### **CLASSROOM ETIQUETTE:**

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

## **Part II: Student Learning Outcomes**

### **COURSE LEARNING OUTCOMES and ASSESSMENTS\*:**

Student learning outcomes:

1. Safety: Demonstrate basic concepts of safety when administering nursing care in health care setting
2. Clinical Decision Making: Implement clinical decision making skills when administering nursing care in health care environments.
3. Teamwork and Collaboration: Implement nursing care which reflects teamwork and collaboration when administering care in health care environments.
4. Professional behavior: Demonstrate professional behavior when administering nursing care in health care environments.
5. Patient Centered Care: Promote patient centered care when administering nursing care in health care environments.

***\*Students – please refer to the Instructor's Course Information sheet for specific information on assessments and due dates.***

## **Unit one: Physiological integrity related to medication administration**

**Materials Covered:** Treas Ch 25, Watkins Ch 9, 10

**Assessment(s):** Laboratory demonstration, unit exam, clinical performance, class assignments, Kaplan testing

### **Learning Outcomes:**

1. Identify the principles of medication administration
2. Discuss the nursing process in relationship to medication administration
3. Identify and demonstrate the methods for administering medications by the following routes:
  - a. enteral
  - b. parenteral
  - c. percutaneous or topical
  - d. mucous membranes
4. Describe and demonstrate recommended techniques for administering enteral medications by mouth, rectum, and via
5. Describe and demonstrate recommended techniques for administering parenteral medications by the following methods
  - a. subcutaneous
  - b. intramuscular
  - c. intravenous
  - d. intradermal
6. Identify indications for IV therapy
7. Review types of IV fluids and indications for use
8. Describe types of venous access devices for IV therapy
9. Review calculations of infusion rates
10. Explain causes, signs, symptoms, and nursing implications of IV therapy
11. Lab objectives
  - a. demonstrate proper technique for administration of medication via
  - b. oral route
  - c. parenteral routes

## **Unit two: Physiological, psychological, spiritual and social integrity of the patient with disorders of the respiratory system**

**Materials Covered:** Williams, chapter 29-31 and study guide, Treas Ch 37, Watkins Ch 18

**Assessment(s):** Unit exam, clinical performance, class assignment, Kaplan testing

**Learning Outcomes:**

1. Review the anatomy and physiology of the respiratory system
2. Discuss age related changes in the respiratory system
3. Identify data to be collected in the nursing assessment of the patient with a respiratory disorder
4. Identify nursing responsibilities for patients undergoing testing and procedures to diagnose disorders of the nose, sinuses, or throat
5. Describe the following types of testing of the respiratory system
  - a. studies of the blood
  - b. radiology
  - c. scoping
  - d. irrigations
  - e. cultures
  - f. oximetry
6. Discuss common therapeutic measures for respiratory disorders and nursing implications
  - a. thoracentesis
  - b. percussion and postural drainage
  - c. suctioning
  - d. humidification and aerosol therapy
  - e. oxygen therapy
  - f. IPPB
  - g. artificial airways
  - h. mechanical ventilation
7. Briefly discuss the types of drugs used to treat respiratory disorders

- a. bronchodilators
  - b. corticosteroids
  - c. antitussives
  - d. antihistamines
  - e. decongestants
8. Explain the pathophysiology, signs and symptoms, complications, medical/surgical treatment, and nursing implications for the following disorders
- a. sinusitis
  - b. nasal polyps
  - c. tumors of nasal passages and sinuses
  - d. epistaxis
  - e. pharyngitis
  - f. laryngitis
  - g. tonsillitis
9. Describe the pre and post-operative care of the patient undergoing a tonsillectomy
- 10 List risk factors and warning signs of cancer of the larynx and important measures which will reduce occurrence
- 11 Discuss the signs and symptoms, diagnosis, medical and surgical treatment, complications of surgery, nursing implications, and prognosis of the patient with cancer of the larynx
- 12 Discuss speech rehabilitation, psychological aspects and coping for the patient undergoing a laryngectomy
- 13 Apply the nursing process to plan care for the patient having a laryngectomy
- 14 Describe the pathophysiology, signs and symptoms, diagnosis, complications, medical treatment, and nursing implications for the following respiratory disorders
- a. acute bronchitis

- b. pneumonia
- c. pleurisy
- d. pulmonary embolus

15 Discuss the signs and symptoms, medical treatment, nursing implications for the following

- a. chest trauma
- b. pneumothorax
- c. rib fractures
- d. flail chest

16 Discuss the nursing implications for the patient with chest tubes

17 Describe the pathophysiology, signs and symptoms, diagnosis, complications, medical treatment, and nursing implications for the following chronic obstructive pulmonary diseases

- a. bronchial asthma
- b. chronic bronchitis
- c. emphysema
- d. bronchiectasis
- e. cystic fibrosis

18 Using the nursing process, develop a care plan for the patient with COPD

19 Describe the pathophysiology, signs and symptoms, diagnosis, complications, medical treatment, and nursing implications for the following chronic restrictive pulmonary disorders

- a. tuberculosis
- b. sarcoidosis
- c. occupational diseases
- d. diffuse interstitial fibrosis

20 Discuss the risk factors, etiology, pathophysiology, signs and symptoms, diagnosis, treatments and nursing care of the patient with lung cancer

21 Discuss clinical techniques of the following:

- a. discuss reasons for performing suctioning of the upper airway
- b. discuss key points to remember when suctioning a patient
- c. demonstrate oropharyngeal suctioning, tracheostomy suctioning, and tracheostomy care disorders

### **Unit three: Physiological, psychological, spiritual and social integrity of the patient with disorders of the cardiovascular system**

**Materials covered:** Williams, chapters 20-26 and study guide, Treas Ch 38, Watkins Ch 16

**Assessment (s):** Unit exam, clinical performance, class assignment, Kaplan testing

#### **Learning Outcomes:**

1. Review the anatomy and physiology of the cardiovascular system
2. Explain the nursing assessment of cardiac function
3. Explain the nursing considerations for patients having diagnostic test and procedures related to cardiac disorders
4. Discuss the common therapeutic measures used with patients experiencing cardiac disorders
5. Describe the pathophysiology, risk factors, signs and symptoms, complications, medical/surgical treatments, and nursing care for the following cardiac disorders
  - a. Dysrhythmias
  - b. Sudden cardiac death
  - c. Myocardial perfusion disorders
  - d. Coronary artery disease
    1. Angina pectoris
    2. Myocardial infarction
    3. Heart failure
    4. Congestive heart failure
    5. Pulmonary edema
    6. cardiac structural disorders



- 7. valvular heart disease
  - 8. cardiomyopathy
  - 9. cardiac transplantation
  - 10. inflammatory disorders
  - 11. rheumatic fever and rheumatic heart disease
6. Review the anatomy and physiology of the peripheral vascular system
  7. Explain the nursing assessment of the peripheral vascular system
  8. Explain nursing considerations for patients having diagnostic tests and procedures related to peripheral vascular disorders
  9. Discuss common therapeutic measures used with patients experiencing peripheral vascular disorders
  10. Discuss commonly used medications used for the patient with a cardiovascular disorder
    - a. antihypertensive
    - b. anticoagulants
    - c. antiarrhythmics
    - d. antianginal
    - e. diuretics
    - f. lipid lowering agents
  11. Describe the pathophysiology, risk factors, signs and symptoms, complications, medical/surgical management, and nursing care for the following peripheral vascular disorders
    - a. venous thrombosis
    - b. superficial vein thrombophlebitis
    - c. arterial thrombosis and embolism
    - d. peripheral arterial occlusive disease
    - e. aneurysms
    - f. aortic dissection
    - g. Raynaud's disease
    - h. Buerger's disease
    - i. varicose veins
    - j. chronic venous insufficiency
    - k. leg ulcers
  12. Define hypertension and review the anatomy and physiology of blood pressure regulation
  13. Differentiate between essential and secondary hypertension

14. Discuss the risk factors, signs and symptoms, complications, diagnosis, and medical treatment of hypertension
15. Describe the nursing care and considerations for the patients with known or suspected hypertension
16. Describe the nursing care and considerations for the patient experiencing a hypertensive crisis

#### **Unit four: Physiological, psychological, spiritual, and social integrity of the patient with disorders of the hematological and lymphatic systems**

**Materials Covered:** Williams, chapters 27-28 and study guide

**Assessment(s):** Unit exam, clinical performance, class assignment, Kaplan testing

#### **Learning Outcomes:**

1. Recall the anatomy and physiology of the hematologic and lymphatic systems
2. Discuss the following diagnostic tests and the nursing implications for each
  - a. complete blood count
  - b. sedimentation rate
  - c. bone marrow biopsy
  - d. clotting studies
  - e. cultures of blood, urine, sputum, and stool
  - f. Schilling test
  - g. Sickle cell test
  - h. lymphangiogram
  - i. spleen sonogram
  - j. spleen scan
3. Describe the pathophysiology, signs and symptoms, complications, medical/surgical treatments, and nursing care for the following disorders of the red blood cell
  - a. iron deficiency anemia
  - b. pernicious anemia
  - c. acquired hemolytic anemia
  - d. aplastic anemia
  - e. anemia resulting from blood loss
  - f. sickle cell anemia
  - g. erythrocytosis
  - h. polycythemia vera

4. Describe the pathophysiology, signs and symptoms, complications, medical/surgical treatments, and nursing care for the following disorders associated with white blood cells
  - a. neutropenia (leukopenia)
  - b. neutrophilia
  - c. leukemias
5. Describe the pathophysiology, signs and symptoms, complications, medical/surgical treatments, and nursing care for the following disorders for the lymphatic system:
  - a. lymphangitis
  - b. lymphadenopathy
  - c. lymphomas
  - d. Hodgkin's Disease
  - e. Non-Hodgkin's Lymphoma
  - f. multiple myeloma
  - g. acute infectious mononucleosis
6. Describe the pathophysiology, signs and symptoms, complications, medical/surgical treatments, and nursing care for the following coagulation disorders:
  - a. thrombocytopenia
  - b. hemophilia
  - c. disseminated intravascular coagulation (DIC)
7. Discuss the following disorders of the spleen and recognize the surgical treatment:
  - a. trauma
  - b. splenomegaly
8. Discuss drug categories commonly used to treat conditions of the lymphatic and hematopoietic systems:
  - a. chemotherapy
  - b. growth factors/hormones
  - c. immunological agents

## **Unit five: Physiological integrity related to disorders of the endocrine system**

**Materials covered:** Williams, chapters 38-40 and study guide, Watkins chapter 15

**Assessment(s):** Unit exam, clinical performance, class assignment, Kaplan testing

### **Learning Outcomes:**

1. Recall the major endocrine glands

2. Explain the primary function and regulatory activities of the endocrine system
3. Describe the basic anatomy and physiology of the thyroid gland
4. Discuss the following thyroid disorders in terms of pathophysiology, signs and symptoms, diagnostic tests, & medical treatment:
  - a. goiter
  - b. hyperthyroidism
  - c. hypothyroidism
5. Describe nursing assessments, diagnoses, & interventions for extended care patients with hyperthyroidism
6. Discuss pre- and postoperative nursing care for a patient who has had a thyroidectomy
7. Discuss nursing assessments, diagnoses, and interventions for patients with hypothyroidism
8. Discuss nursing assessments, diagnoses, and interventions for patients with hypothyroidism
9. Explain the basic anatomy & physiology of the parathyroid glands
10. Describe the signs & symptoms, diagnosis, medical/surgical treatment and nursing interventions for the following disorders of the parathyroid glands:
  - a. hyperthyroidism
  - b. hypothyroidism
11. Describe the endocrine function of the pancreas and relate this to the cause of diabetes mellitus
12. Differentiate between the two major types of diabetes mellitus: IDDM (insulin dependent diabetes mellitus) and NIDDM (non-insulin dependent diabetes mellitus)
13. Define impaired glucose tolerance and gestational diabetes
14. Describe signs & symptoms, and laboratory evaluation of diabetes mellitus
15. Discuss the management of diabetes mellitus in terms of:
  - a. diet
  - b. exercise
  - c. oral hypoglycemic
  - d. insulin
16. Discuss appropriate nursing assessments, nursing diagnoses, and interventions for patients with NIDDM & IDDM

17. Discuss major teaching needs of the patient with diabetes
18. Identify sources of support and information for diabetic patients and their families
19. Describe the following complications of IDDM and discuss appropriate nursing interventions:
  - a. hyperglycemia
  - b. diabetic ketoacidosis
  - c. somogyi phenomenon
  - d. hypoglycemia
20. Discuss the following long-term effects of IDDM:
  - a. cardiovascular disease
  - b. nephropathy
  - c. PVD
  - d. retinopathy
  - e. neuropathy
21. Develop a nursing care plan for the patient with IDDM
22. Identify signs and symptoms of hypoglycemia in nondiabetic patients
23. Describe nursing assessments and interventions for patients with hypoglycemia
24. Discuss the following disorders of the adrenal glands in terms of pathophysiology, signs and symptoms, and medical treatment:
  - a. Addison's disease
  - b. Cushing's syndrome
25. Discuss the function of the pituitary gland
26. Discuss the signs and symptoms and medical/surgical treatment for pituitary tumors
27. Discuss the pathophysiology, signs and symptoms, nursing diagnoses, and medical treatment and nursing consideration for the extended care patient with the following disorders of the pituitary gland:
  - a. gigantism
  - b. dwarfism
  - c. diabetes insipidus
28. Define key endocrine system terms

## **Part III: Grading and Assessment**

## **EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS\***

Students' performance will be assessed and the weight associated with the various measures/artifacts are listed below.

### **EVALUATION\***

Quizzes/ assignments	7.5%
Unit tests	70%
Portfolio	2.5%
Final Exam	<u>20%</u>
	100%

***\*Students, for the specific number and type of evaluations, please refer to the Instructor's Course Information Sheet.***

### **GRADING SYSTEM:**

A = 100 – 90, B = 89- 80, C = 79 – 77, D = 76 – 60, F = 59 and below

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the academic calendar for deadlines for add/drop ([ACADEMIC CALENDAR](#)). You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

## **Part IV: Attendance**

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of 80 percent (80%) of their classes in order to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

**For online and hybrid courses**, check your Instructor's Course Information Sheet for any required on-site meeting times. Please note, instructors may require tests to be taken at approved testing sites, if

you use a testing center other than those provided by HGTC, the center may charge a fee for its services.

## Part V: Student Resources



### The Student Success and Tutoring Center (SSTC)

The SSTC offers to all students the following **free** resources:

- 1. Academic coaches** for most subject areas, **Writing Center Support**, and **college success skills**.
- 2. On-line student success and academic support resources.**

Visit the SSTC website: [Student Success & Tutoring Center](#) and visit the student services tab in your WaveNet account to schedule appointments using TutorTrac. For more information, call: SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455 or go to the [Online Resource Center](#) to access on-demand resources any time.

### TECH Central – Student Information Center



TECH Central provides quality enrollment and collegiate guidance for students, faculty, and staff. Services include phone, walk-in, and online technical support for technology training and troubleshooting. Additionally, we offer support in Office 365, Outlook E-mail setup, and ID cards.

**Phone:** 843-349-5340

**Email:** [techcentral@hgtc.edu](mailto:techcentral@hgtc.edu)

**Text:** 843-357-8552

**TECH Talk (Live Chat):** Located on the "Home" tab in WaveNet.

**Website:** [www.hgtc.edu/techcentral](http://www.hgtc.edu/techcentral)

#### **Locations:**

Conway Building 1100, Room 132D

Grand Strand Building 200, Room 136

**Student Testing:** (If course is offered in multiple format include this section, delete if only F2F sections are offered.)

Testing in an **online/hybrid** course may be accomplished in a variety of ways:

- Test administered within D2L

- Test administered in writing on paper
- Test administered through Publisher Platforms

Further more tests may have time limits and/or require a proctor.

Proctoring can be accomplished either face-to-face at an approved site or online through RPNOW, our online proctoring service. To find out more about proctoring services, please visit the [Online Testing](#) section of the HGTC's Testing Center webpage.

The **Instructor Information Sheet** will have more details on test requirements for your course.

## **Disability Services:**

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to Beth Havens, Director of Student Development on the Conway Campus Jaime Davis, Counselor/Advisor on the Georgetown Campus or Kristin Griffin, Counselor on the Grand Strand Campus. These individuals will review documentation of the student's disability and, in a confidential setting with the student, develop an educational accommodation plan.

Note: It is the student's responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided.

## **Statement of Equal Opportunity/Non-Discrimination Statement**

Horry-Georgetown Technical College prohibits discrimination and harassment, including sexual harassment and abuse, on the basis of race, color, sex, national or ethnic origin, age, religion, disability, marital or family status, veteran status, political ideas, sexual orientation, gender identity, or pregnancy, childbirth, or related medical conditions, including, but not limited to, lactation in educational programs and/or activities.

Inquiries regarding the non-discrimination policies: Students and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs, Dr. Melissa Batten, VP Student Affairs, Title IX Coordinator, Building 1100, Room 107A, Conway Campus, PO Box 261966, Conway, SC 29528-6066, 843-349-5228, [Melissa.Batten@hgtc.edu](mailto:Melissa.Batten@hgtc.edu). Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources, Jacquelyne Snyder, VP Human Resources, Section 504, Title II, and Title IX Coordinator, Building 200, Room 212A, Conway Campus, PO Box 261966, Conway, SC 29528-6066, 843-349-5212, [Jacquelyne.Snyder@hgtc.edu](mailto:Jacquelyne.Snyder@hgtc.edu).

## **Title IX Requirements**

All students (as well as other persons) at Horry-Georgetown Technical College are protected by Title IX—regardless of their sex, sexual orientation, gender identity, part- or full-time status, disability, race, or national origin—in all aspects of educational programs and activities. Any student, or other member of the college community, who believes that he/she is or has been a victim of sexual harassment or sexual violence may file a report with the college's Chief Student Services Officer, campus law enforcement, or with the college's Title IX Coordinator, or designee.



\*Faculty and Staff are required to report incidents to the Title IX Coordinators when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).

<p><b>Inquiries regarding the non-discrimination policies:</b></p>	
<p>Student and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs.</p>	<p>Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources.</p>
<p><b>Dr. Melissa Batten, VP Student Affairs</b>  <i>Title IX Coordinator</i></p> <p>Building 1100, Room 107A, Conway  Campus  PO Box 261966, Conway, SC 29528-6066  843-349-5228  <a href="mailto:Melissa.Batten@hgtc.edu">Melissa.Batten@hgtc.edu</a></p>	<p><b>Jacquelyne Snyder, VP Human Resources</b>  <i>Section 504, Title II, and Title IX Coordinator</i></p> <p>Building 200, Room 212A, Conway Campus  PO Box 261966, Conway, SC 29528-6066  843-349-5212  <a href="mailto:Jacquelyne.Snyder@hgtc.edu">Jacquelyne.Snyder@hgtc.edu</a></p>