

Virginia Western Community College

PNE111

PRACTICAL NURSING IN HEALTH AND DISEASE II

Prerequisites

Admission to the Practical Nursing Program

VWCC Discipline Specific Course Description

Studies the pathophysiology, signs and symptoms, prescribed medical and surgical treatments, and appropriate nursing care for the patient with selected disorders. Including concepts and exemplars.

Semester Credits: 5

Lecture Hours: 5

Required Materials

Laptop, WiFi access, Elsevier Evolve Course Resources

Required Textbook

Stromberg, Holly K., (2023). Medical-Surgical Nursing Concepts and Practices, (5th Ed.), Elsevier, St. Louis,

ISBN: 978-1-975155-34-6

Giddens, Jean Foret, (2025). Concepts for Nursing Practice, (4th Ed.) Elsevier, St. Louis, ISBN: 978-0-323-08982-5

Reference Textbooks:

Morris, Deborah C., (2022). Calculate with Confidence, (8th Ed.), Elsevier, St. Louis ISBN: 978-0-323-69695-1

Willihnganz, Michelle & Gurevutz, Samuel L., (2026) Clayton's Basic Pharmacology for Nurses, (20th Ed.), Elsevier, St. Louis, ISBN: 9780443126994

Williams, Patricia, (2026) Fundamentals Concepts and Skills for Nursing (7th Ed.), Elsevier, St. Louis, ISBN: 9780443245237

VWCC AND DISCIPLINE SPECIFIC OUTCOMES

Course Objectives

After completion of this course, the student will be able to:

1. **SAFETY** - Demonstrate knowledge of causes of disease and illness, including microorganisms and communicable diseases, biochemical agents, cellular abnormalities, trauma, genetic transmission, and participation in high-risk activities.
2. **SAFETY** - Categorize signs and symptoms of selected disorders.
3. **SAFETY** - Relate expected diagnostic studies and pharmacological interventions including the nursing implications for each, with an emphasis on patient safety and comfort.
4. **SAFETY** - Apply age-related considerations when planning patient care and medication administration.
5. **PATIENT-CENTERED CARE** – Apply knowledge of concepts to individualized care for the patient to meet identified needs and to prevent complications.
6. **CRITICAL THINKING** - Apply critical thinking to prioritize and plan care for patients with selected medical-surgical disorders utilizing case studies and group activities.
7. **TEAMWORK** - Analyze the role of the practical nurse as a member of the interdisciplinary health care team in care planning, health promotion, disease prevention, and patient safety while collaborating with healthcare personnel from all disciplines.
8. **INFORMATICS** - Relate the use of technology and information management tools to support safe patient care.
9. **EVIDENCE-BASED PRACTICE** - Use reliable sources for locating evidence-based information related to selected medical-surgical topics. Examine standardized nursing care plans using critical thinking, clinical reasoning, and evidence-based practice.
10. **CULTURE** – Recognize and provide care with sensitivity and respect for human diversity, and cultural needs.

VWCC AND DISCIPLINE SPECIFIC TOPICAL DESCRIPTIONS

Course Outline

Unit 5: Hematologic System

Concepts: #17 Clotting & #10 Cellular Regulation

A. Chapter 15 The Hematologic System

1. Overview of Anatomy and Physiology of the Hematologic System
2. Causes of Hematologic Disorders
3. Prevention of Hematologic Disorders
4. Diagnostic Tests and Procedures
5. Nursing Management
6. Common Problems Related to Disorders of the Hematologic System

B. Chapter 16 Care of Patients with Hematologic Disorders

1. Disorders of the Hematologic System

2. Nursing Management
3. Coagulation Disorders
4. Therapies Frequently Used in the Management of Hematologic Disorders
5. Community Care

Unit 3: Immune System

Concepts: # 21 Immunity & # 22 Inflammation

A. Chapter 10 The Immune and Lymphatic Systems

1. Anatomy and Physiology of the Immune and Lymphatic Systems
2. Protective Mechanisms of the Immune and Lymphatic Systems
3. Immune and Lymphatic System Disorders
4. Nursing Management
5. Common Problems Related to the Immune and Lymphatic Systems

B. Chapter 11 Care of Patients with Immune and Lymphatic Disorders

1. Immune Function and Dysfunction
2. Immune Deficiency Conditions
3. Therapeutic Immunosuppression
4. Nursing Management
5. Human Immunodeficiency Virus and Acquired Immunodeficiency Syndrome
6. Nursing Management
7. Human Immunodeficiency Virus Risk in Patients Older Than 50 Years
8. Community Education and Care
9. Autoimmune and Autoinflammatory Disorders
10. Disorders of the Lymphatic System
11. Disorders of Inappropriate Immune Response
12. Nursing Management

Unit 7: Neurologic System

Concepts: # 17 Clotting, # 11 Intracranial Regulation

A. Chapter 21 The Neurologic System

1. Anatomy and Physiology of The Neurologic System
2. Causative Factors Involved in Neurologic Disorders
3. Prevention of Neurologic Disorders
4. Evaluation of Neurologic Status
5. Nursing Management
6. Common Neurologic Patient Care Problems

B. Chapter 22 Care of Patients with Head and Spinal Cord Injuries

1. Traumatic Brain (Head) Injuries
2. Increased Intracranial Pressure
3. Nursing Management
4. Injuries of the Spine and Spinal Cord
5. Nursing Management
6. Back Pain and Herniated Disk (Bulged, Slipped, or Ruptured Disk)

C. Chapter 23 Care of Patients with Brain Disorders

1. Seizure Disorders and Epilepsy

2. Nursing Management
3. Transient Ischemic Attack
4. Cerebrovascular Accident (Stroke, Brain Attack)
5. Nursing Management
6. Brain Tumor
7. Nursing Management
8. Infectious and Inflammatory Disorders of the Nervous System
9. Nursing Management
10. Headaches
11. Cranial nerve disorders
12. Nursing Management

D. Chapter 24 Care of Patients with Peripheral Nerve and Degenerative Neurologic Disorders

1. Parkinson Disease
2. Nursing Management
3. Multiple Sclerosis
4. Nursing Management
5. Alzheimer Disease
6. Amyotrophic Lateral Sclerosis
7. Guillain-Barré Syndrome
8. Nursing Management
9. Poliomyelitis and Postpolio Syndrome
10. Huntington Disease
11. Myasthenia Gravis
12. Nursing Management
13. Restless Leg Syndrome
- 14. Community Care**

Unit 8: Sensory System

Concepts: # 26 Sensory Perception

A. Chapter 25 The Sensory System (EYE)

1. Anatomy and Physiology of the Eye
2. The Eye
3. Nursing Management
4. Common Disorders of the Eye
5. Nursing Care of Patients Having Eye Surgery
6. Community Care

B. Chapter 26 The Sensory System (EAR)

1. Anatomy and Physiology of the Ear
2. The Ear
3. Nursing Management
4. Common Problems of Patients with Ear Disorders
5. Common Disorders of the Ear
6. Cochlear Implant
7. Nursing Care of Patients Having Ear Surgery
8. Community Care

Unit 11: Urinary System

Concepts: # 15 Elimination

A. Chapter 33 The Urinary System

1. Anatomy and Physiology of the Urologic System
2. The Urologic System
3. Nursing Management
4. Common Urologic Problems

B. Chapter 34 Care of Patients with Disorders of the Urinary System

1. Inflammatory Disorders of the Urinary Tract
2. Obstructions of the Urinary Tract
3. Urologic System Trauma
4. Urologic System Cancers
5. Renal Failure
6. Nursing Management
7. Nursing Management
8. Community Care

Unit 13: Reproductive System

Concepts: # 19 Reproduction

A. Chapter 38 The Reproductive System

1. The Female Reproductive System
2. Anatomy and Physiology of the Female Reproductive System
3. Women's Health Care
4. Health Screening and Assessment
5. Nursing Management
6. Anatomy and Physiology of the Male Reproductive System
7. The Male Reproductive System
8. Nursing Management
9. Care of Patients who Identify as Lgbtqia+

B. Chapter 39 Care of Women with Reproductive Disorders

1. Menstrual Dysfunction
2. Infertility
3. Nursing Management
4. Menopause
5. Nursing Management
6. Disorders of the Female Reproductive Tract
7. Cancer of the Reproductive Tract
8. Disorders of the Breast
9. Nursing Management
10. Home Care
11. Community Care

C. Chapter 40 Care of Men with Reproductive Disorders

1. Disorders of the Male Reproductive System
2. Community Care

D. Chapter 41 Care of Patients with Sexually Transmitted Infections

1. Common Infections of the Female Reproductive Tract
2. Risk Factors for Transmission of Sexually Transmitted Infections
3. Transmission of Sexually Transmitted Infections
4. Nursing Management
5. Community Care

Unit 10: Caring for Clients with Musculoskeletal Disorders

Concepts: # 24 Mobility, # 25 Tissue Integrity, # 27 Pain

A. Chapter 31 The Musculoskeletal System

1. Anatomy and Physiology of the Musculoskeletal System
2. Musculoskeletal Disorders
3. Nursing Management

B. Chapter 32 Care of Patients with Musculoskeletal and Connective Tissue Disorders

1. Connective Tissue Disorders
2. Nursing Management
3. Inflammatory Disorders of the Musculoskeletal System
4. Nursing Management
5. Nursing Management
6. Community Care

Unit 14: Integumentary System

Concepts: # 25 Tissue Integrity, # 23 Infection, # 27 Pain

A. Chapter 42 The Integumentary System

1. Anatomy and Physiology of the Integumentary System
2. The Integumentary System
3. Nursing Management

B. Chapter 43 Care of Patients with Integumentary Disorders and Burns

1. Inflammatory Infections
2. Bacterial Infections
3. Viral Infections
4. Fungal Infections
5. Tinea Pedis
6. Parasitic Infections
7. Noninfectious Disorders of Skin
8. Nursing Management
9. Community Care

[TITLE IX STATEMENT](#)

[ADA STATEMENT](#)