



Course Description

NUR3125 | Pathophysiology in Nursing Practice | 3.00 credits

This course builds upon prior knowledge in assessment, management of patients with commonly occurring diseases, and evaluation patient outcomes. The course will integrate the principles and rationales of pathophysiology at the cellular and systemic level using the nursing process. It will provide an in-depth theoretical and clinical principles of diseases encountered in healthcare settings. Health disparities resulting from social determinants of health, genetics, and stress related causes will also be explored.

Course Competencies:

Competency 1: The student will be able to demonstrate knowledge of pathophysiologic processes and corresponding interventions in nursing practice by:

1. Integrating principles of normal anatomy and physiology on human body systems at the cellular level to explain alterations produced by disease processes (i.1b) (QSEN, PCT) (ANA,1)
2. Utilizing normal anatomy and physiology principles on the human body system to explain the pathogenesis for selected conditions, diseases, and health alterations (i.2a) (QSEN, PCT) (ANA, 2, 3)
3. Identifying the interrelationship between the disease process's pathophysiology and common clinical manifestations (2.3c) (QSEN, EBP) (ANA, 3)
4. Differentiating between the normal and pathophysiologic functions of human body systems (2.3e) (QSEN, EBP) (ANA, 3)
5. Analyzing the evidence of pathologic deviations in patient outcomes (2.4c) (QSEN, EBP) (ANA,4)

Competency 2: The student will be able to analyze the relationship between the selected disease and its etiology related to patient outcomes by:

1. Describing the relationship and influence of genetics and genomics contributing to disease etiologies and predisposing factors (AACN 3.1) (QSEN, PCT) (ANA, 13, 14)
2. Investigating the association between lifestyle and environmental factors that contribute to health deviations (AACN 2.5e) (QSEN, PCT) (ANA, 13)
3. Analyzing the effect of ethnic and age variations on the body's physiological response to disease (AACN 2.5g) (QSEN, PCT) (ANA, 8)
4. Examining the impact of social health determinants on disadvantaged populations' morbidity and mortality (AACN 2.9a) (QSEN, PCT) (ANA,7, 8, 9)

Competency 3: The student will be able to evaluate physical presentations clinical manifestations of selected illnesses and diseases using an evidence-based practice model by:

1. Utilizing advanced health assessment findings to evaluate alterations in selected diseases or conditions (AACN 2.3a, 2.3b) (QSEN, PCT) (ANA, 1)
2. Connecting the physiological basis for signs, symptoms, and diagnostic test results for selected diseases, conditions, and health alterations (AACN 2.3c) (QSEN, EBP) (ANA, 2)
3. Explaining the rationale for diagnostic tests and laboratory values in specific diseases (AACN 2.3d) (QSEN, EBP) (ANA, 2)
4. Comparing research findings to evaluate various pathologies or selected diseases and clinical presentations. (AACN 2.3e) (QSEN, EBP) (ANA, 6, 13) Evaluate data on clinical presentations of selected acute and chronic diseases (AACN 1.3a, 1.3c) (QSEN, EBP) (ANA, 6, 13)

Competency 4: The student will be to work in teams effectively to create care plans using empathy, collaboration, and cultural humility when providing nursing care for patients experiencing acute and chronic illnesses or diseases by:

1. Investigating the impact and benefits of interprofessional collaboration using effective communication (oral, written, and electronic) to facilitate information sharing for positive patient outcomes (AACN 5.1a) (QSEN, TWC) (ANA, 9, 10)
2. Analyzing the roles and how they will positively or negatively influence a patient's health, wellness, and outcomes (AACN 5.2b) (QSEN, S), (ANA, 14)
3. Applying concepts of health promotion, disease prevention, and risk reduction (AACN 2.4b, 2.4c, 2.4d, 2.4e) (QSEN, S) (ANA, 5b)
4. Demonstrating empathy and cultural humility when developing the plan of care (AACN 2.1a, 2.1c, 2.2a) (QSEN, PCT) (ANA, 8, 14)
5. Synthesizing information to develop a care plan using the pathophysiology concepts of etiology, clinical presentation, prognosis, and treatment (AACN 2.4a, 2.4e, 2.5b, 2.5c) (QSEN, QI) (ANA, 13, 15, 16)

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Demonstrate knowledge of diverse cultures including global and historical perspectives
- Create strategies that can be used to fulfill personal, civic, and social responsibilities
- Demonstrate knowledge of ethical thinking and its application to issues in society
- Use computer and emerging technologies effectively
- Demonstrate an appreciation for aesthetics and creative activities