

# Minnesota State University Moorhead

## **NURS 636: Pathophysiology, Pharmacology, Physical Assessment - Health Professions II**

### **A. COURSE DESCRIPTION**

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

NURS 635 - Pathophysiology, Pharmacology, Physical Assessment - Health Professions I

Corequisites: None

MnTC Goals: None

This course is the second of a two-course series that integrates health histories, research-based biopsychosocial assessments, pharmacology, and physiology/pathophysiology. Concepts addressed in this course include neuronal-hormonal-metabolic regulation, ventilation-perfusion, nutrition, elimination, and multi-system organ failure including end of life care. The lifespan approach will (a) strengthen the health professionals scientific foundation for practice; (b) facilitate understanding of nursing and health-related information to teach students, patients and caregivers; (c) facilitate inter-professional collaboration; and (d) improve health care across a wide variety of settings. Students will complete health histories and physical exams using a variety of methods including digital simulation.

**B. COURSE EFFECTIVE DATES:** 02/02/2023 - Present

### **C. OUTLINE OF MAJOR CONTENT AREAS**

### **D. LEARNING OUTCOMES (General)**

1. Analyze assessment findings to identify present/potential health problems.
2. Analyze impact of biopsychosocial assessment, pharmacology, and pathophysiology on quality indicators and outcome measures.
3. Analyze impact of pharmacokinetics, pharmacodynamics, and drug interactions on disease management with lifespan considerations.
4. Apply concepts of pharmacology and physiology in the critical evaluation of client health and treatment response.
5. Communicate client information with an interprofessional team verbally and in writing using appropriate terminology and formatted in various technology platforms.
6. Design course content based on principles of health assessment, physiology/pathophysiology and pharmacology.
7. Formulate client education and teaching plans based on principles of pathophysiology and pharmacology.
8. Integrate health assessment, pathophysiology findings, and pharmacology into care of a variety of disease processes.
9. Perform focused health histories and physical assessments on adult and pediatric clients that reflect lifespan and cultural considerations.
10. Synthesize assessment findings with evidence-based practice to develop a comprehensive, culturally-sensitive plan of care.
11. Synthesize assessment data, pathophysiology, and pharmacology in management of multiple organ dysfunction and end of life care.

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted