Course Outline for: NURS 2920 Applied Pathophysiology for Nursing 2

A.   Course Description
1.   Number of credits: 2
2.   Lecture hours per week: 2
3.   Prerequisites: NURS 2800, NURS 2850, NURS 2820
4.   Corequisites:: NURS 2900, NURS 2950
5.   MnTC Goals: None

This course will facilitate ongoing critical thinking and analysis of pathophysiological concepts. Emphasis will be on interpretation and prioritization of data resulting from environmental, genetic, and stress-related maladaptations. This course complements the selected topics addressed in Acute & Complex Care to provide a comprehensive understanding of disease processes.

B.   Date last reviewed/updated: January 2022

C.   Outline of Major Content Areas
1.   Professional Development & Identity in relation to acute pathophysiological conditions
   a.   Health Care Delivery
       i.   Evidence-based Practice
2.   Physiological integrity in relations to acute pathophysiological conditions
   a.   Physiological Homeostasis & Regulation
       i.   Fluid &Electrolyte Balance
       ii.   Acid-Base Balance
       iii.   Thermoregulation
       iv.   Cellular Regulation
       v.   Intracranial Regulation
       vi.   Metabolism
       vii.   Elimination
       viii.   Sexuality & Reproduction
       ix.   Oxygenation
       x.   Perfusion
   b.   Protection and Movement

     xi. Immunity
     xii. Inflammation
     xiii. Infection
     xiv. Tissue Integrity
     xv. Sensory Perception
     xvi. Comfort
     xvii. Mobility

3. Psychosocial Integrity in relation to acute pathophysiological conditions
 a. Behavioral Resilience
   i. Coping, Stress & Adaptation
   ii. Vulnerability
4. Lifespan Growth and Development in relation to acute pathophysiological conditions
 a. Determinants of Health
   i. Genetics
   ii. Culture
   iii. Individual Behavior
   iv. Social & Economic Factors

D. **Course Learning Outcomes**
By the end of the course, the student will be able to:
1. Utilizes theories and concepts from the sciences to expand understanding of the human pathophysiological experience.
2. Incorporate theory and research utilizing and prioritizing data from multiple relevant sources.
3. Explain the common mechanisms of acute/complex disease progression in the human body.
4. Analyze protective and predictive factors including genetics which influence the heath of clients.

E. **Methods for Assessing Student Learning**
Each semester, cognitive learning will be evaluated primarily by written examinations and quizzes, including alternative format, multiple choice and short answer questions, and at least one alternative written assignment.

F. **Special Information**
Refer to nursing student handbook for additional details