Course Outline for: NURS 2850 Applied Pathophysiology for Nursing 1

A.   Course Description:
1. Number of credits: 2
2. Lecture hours per week: 2
3. Prerequisites: NURS 2700 and NURS 2750 or NURS 2720 and NURS 2750
4. Corequisites: NURS 2800 and NURS 2820
5. MnTC Goals: None

This course introduces a holistic perspective of pathophysiological processes and the disruption in normal body function. Emphasis will be on objective and subjective manifestations of common chronic health problems resulting from environmental, genetic, and stress-related maladaptation to provide a foundation for nursing care. This course complements selected topics addressed in Chronicity and End of Life 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 chronic pathophysiological conditions
    A. Health Care Delivery
        i.   Evidence-based Practice
2. Physiological Integrity in relation to chronic pathophysiological conditions
    A. Physiological Homeostasis & Regulation
        i.   Fluid &Electrolyte Balance
        ii.   Acid-Base Balance
        iii. Cellular Regulation
        iv.   Intracranial Regulation
        v.   Metabolism
        vi.   Elimination
        vii. Oxygenation
        viii. Perfusion
    B. Protection and Movement
        i.   Tissue Integrity
        ii. Comfort

        iii. Mobility
3. Psychosocial Integrity in relation to chronic pathophysiological conditions
    A. Psychosocial Homeostasis & Regulation
        i. Cognitive Function
    B. Behavioral Resilience
        i. Coping/Stress/Adaptation
4. Lifespan Growth and Development in relation to chronic pathophysiological conditions
    A. Determinants of Health
        i. Genetics
        ii. Nutrition
        iii. Environment
        iv. Culture
        v. Individual Behaviors
        vi. Social & Economic Factors

D. **Course Learning Outcomes**

The student will be able to:
1. Utilize theories and concepts from the sciences to build an understanding of the manifestations of chronic pathophysiological conditions.
2. Incorporate theory and research utilizing data from multiple evidence-based sources.
3. Explain the common mechanisms of chronic disease progression in the human body.
4. Determine protective and predictive factors including genetics which influence the health 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, worksheets/cards/and concept maps.

A minimum of 78% must be earned to successfully pass the course.

F. **Special Information**

Refer to nursing student handbook for additional details