

# Minnesota State University Moorhead

## **NURS 285: Applied Pathophysiology for Nursing I**

### **A. COURSE DESCRIPTION**

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

This course requires either of these prerequisite categories

1. NURS 270 - Health Promotion & the Role of the Professional Nurse

Or

2. Both of these

NURS 272 - Transition to the Role of the Professional Nurse

NURS 275 - Nutrition & the Role of the Professional Nurse

Corequisites: None

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 maladaptations 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. COURSE EFFECTIVE DATES:** 01/08/2020 - Present

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

1. Healthcare Delivery
  - i. Evidence-based Practice
2. 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
3. Protection and Movement
  - i. Tissue Integrity
  - ii. Comfort
  - iii. Mobility
4. Psychosocial Homeostasis & Regulation
  - i. Cognitive Function
5. Behavioral Resilience
  - i. Coping/Stress/Adaptation
6. Determinants of Health
  - i. Genetics
  - ii. Nutrition
  - iii. Environment
  - iv. Culture
  - v. Individual Behaviors
  - vi. Social & Economic Factors

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

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

None

### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

### **G. SPECIAL INFORMATION**

None noted