

# Minnesota State University Moorhead

## NURS 614: Advanced Pathophysiology and Pharmacology I

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is the first of two advanced courses that examine alterations in human physiology which lead to adaptation and/or disease throughout the lifespan. Emphasis is placed on the physiological basis for pathological changes, the clinical manifestations which can result and the basis for treatment including pharmacological management. Application to nursing student education will also be considered.

**B. COURSE EFFECTIVE DATES:** 02/27/2014 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Anticipate potential physiological responses to both pharmacological and nonpharmacological interventions.
2. Apply concepts of pharmacology and pathophysiology in the critical evaluation of client health status and treatment response.
3. Correlate principles of pharmacological action and response with body system physiology and pathophysiology of those systems.
4. Describe characteristics of major drug classifications including action, indications and side effects.
5. Explain pathophysiological processes which lead to adaptation and alterations in function and disease of the immune, endocrine, cardiovascular, hematologic and pulmonary systems.
6. Formulate patient education plans which are based on principles of pharmacology and pathophysiology.
7. Utilize course content to develop pathophysiology and pharmacology courses designed for the undergraduate level.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted