

# Minnesota State University Moorhead

## NURS 616: Advanced Pathophysiology and Pharmacology II

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

NURS 614 - Advanced Pathophysiology and Pharmacology I

Corequisites: None

MnTC Goals: None

This course is the second of two advanced courses that examine alterations in human physiology which lead to adaptation and/or disease throughout the lifespan in the neurological, renal, gastrointestinal, musculoskeletal, and integumentary systems. Clinical manifestations, basis for pharmacological management and application to nursing student education will be emphasized.

**B. COURSE EFFECTIVE DATES:** 10/02/2014 - 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. Develop an evidence based research paper which synthesizes the content from both courses in a detailed study of a common diagnosis.
6. Explain pathophysiological processes which lead to adaptation and alterations in function and disease of the neurological, renal, gastrointestinal, musculoskeletal, and integumentary systems.
7. Formulate patient education plans which are based on principles of pharmacology and pathophysiology.
8. Summarize research paper findings for a class presentation.
9. Utilize content from both courses to analyze the pathophysiology and management of multiple organ dysfunction.
10. Utilize course content for the development of undergraduate pathophysiology and pharmacology courses.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

## **G. SPECIAL INFORMATION**

None noted