

**MONTANA STATE UNIVERSITY**  
**COLLEGE OF NURSING**  
**Master Resource Outline**  
**NRSG 511 Pathophysiology and Pharmacology for the Clinical Nurse Leader**

**Credits:** 3 (lecture)  
**Semester Offered:** Fall  
**Prerequisites:** none  
**Degree:** MN

**Course Description:** This course is designed for the advanced nurse generalist. It builds on basic physiology and pathophysiology and leads to an understanding of symptoms and patterns of pathophysiology that are experienced commonly in populations that require interventions and management within healthcare delivery systems. Health maintenance, preventive, acute, chronic, palliative, and/or end of life care will be considered.

**Course objectives:**

1. Analyze the relationship between physiology and pathology within body systems.
2. Discuss advanced pharmacokinetic principles as they relate to common pathophysiologic problems across the lifespan.
3. Identify factors related to pathophysiology and pharmacology to support clinical decision-making in the CNL role.
4. Analyze pharmacotherapeutics of single and multiple drug regimens that are encountered in pathophysiologic presentations.
5. Analyze client/patient education needs related to pathophysiologic presentations and pharmacotherapeutic regimens.
6. Analyze ethical considerations related to the management of pathophysiologic responses and pharmacotherapeutic regimens from the CNL perspective.

**Approved by GAAC:** January, 2013; re-approved:  
**Approved by Faculty:** March 1, 2013