Advanced Pathophysiology

**Course Description**

This course provides students with the understanding of normal physiologic and pathologic mechanisms of disease that serves as the foundation for clinical assessment, decision making, and management.

**Credit Hour Distribution**

3 credit hours

**Course Objectives**

Upon completion of this course, the student is expected to:

1. Examine physiologic changes over the life span.
2. Analyze the relationship between normal physiology and pathological phenomena.
3. Incorporate current evidence based practice regarding pathophysiology into advance practice nursing.
4. Describe the developmental physiology, normal etiology, pathogenesis, and clinical manifestations of commonly found altered health states in various populations.
5. Analyze physiological responses to illness and treatment modalities.
6. Synthesize responsibility and accountability using consistent behavior patterns and professional communication.

**Topics - 2 hours each unless noted**

Concepts of health and disease

Cell function and growth

Disorders of integrative function

Disorders of hematopoietic system

Infection, inflammation, and immunity

Disorders of cardiovascular function 3 hours

Disorders of respiratory function

Disorders of renal function and fluids and electrolytes

Disorders of gastrointestinal function

Disorders of endocrine function 3 hours

Disorders of genitourinary and reproductive function

Disorders of neural function

Disorders of sensory function

Disorders of musculoskeletal and integumentary function

Disorders of skin integrity and function

Disorders of psych

Disorders of the reproductive system

Metabolic disorders

Rheumatic disorders

Trauma and neoplasms