

Advanced Pathophysiology (NURS580) Lecture Syllabus - Summer 2008

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Office Hours: Thursday after class (9:00 p.m.) and by appointment.

Textbook: "Pathophysiology" 3rd edition, 2005
Authors: Lee-Ellen C. Copstead-Kirkhorn & Jacquelyn L. Banasik

Course Description

Examination of normal physiology and pathologic alterations will lay the foundation for clinical assessment, decision making, and management. The four major topics to be addressed are etiology (cause/causes of the disease), pathogenesis (development of the disease), clinical manifestations (how is the disease process apparent in the patient), and general treatment implications. The course will be more concerned with cellular mechanisms responsible for the disease state in conjunction with general mechanisms necessary to reinstate homeostasis rather than the specific "clinical treatment" aspect of disease. The course will not emphasize epidemiology, pharmacology, or molecular biology. While a fair amount of memorization will be required, the primary focus will be on conceptual understanding of disease mechanisms rather than recall of individual proteins in various biochemical pathways.

Course Objectives

1. To analyze the relationship between normal physiology and alterations that occur in specific systems as a result of disease processes and abnormal health conditions.
2. To integrate the etiology, pathogenesis, and clinical manifestations of frequently-occurring disease processes.
3. To correlate pathophysiology with signs and symptoms of disease and with laboratory data.
4. To apply general pathophysiologic concepts to specific disease entities and selected clinical situations.
5. To predict effect/s that specific cellular dysfunction will have on organ/systemic physiology.