OTA 104 Survey of Pathophysiology

1. Discuss etiologic concepts in terms of disease processes.
2. Define terms related to pathological conditions.
3. Describe the normal inflammatory responses including cause, purpose, signs, and symptoms, and the sequelae.
4. Describe the processes of healing and repair in relationship to the structure of skin, muscle, bone, and nerve.
5. Identify the basic etiology, pathology, signs, and symptoms associated with diseases of the body systems covered in this course: Cardiovascular, pulmonary, blood, gastrointestinal, renal/urologic, hepatic/biliary, endocrine/metabolic, and immunologic.
6. Discuss medical, surgical, and pharmacologic forms of treatment and their effects on rehabilitation process for diseases of the body systems covered in this course.
7. Explain the correlation between systemic diseases and presentation as musculoskeletal conditions, including patterns of referred pain.

Course Outline

I. Disease Processes and Terminology
   A. Infectious
   B. Traumatic (physically and/or chemically induced)
   C. Genetic
   D. Developmental/Oncologic
   E. Aging

II. Normal Inflammatory Response
   A. Causes
   B. Purpose
   C. Signs and Symptoms
   D. Event Sequelae

III. Healing and Repair
   A. Terminology
   B. Skin
   C. Muscle
   D. Bone
   E. Neurologic

IV. System Survey of Common Diseases
   A. Etiology
   B. Pathology
   C. Signs and Symptoms
D. Treatment Forms
   1. medical
   2. surgical
   3. pharmacologic

E. Effects on Rehabilitation Process
   1. medications
   2. precautions and concerns,

V. Universal Precautions for Transmission of HIV and HBV