

## STANDARD COURSE OUTLINE

### **PHTA 2213:        PATHOPHYSIOLOGICAL CONDITIONS**

**PREREQUISITES:**            Successful completion of Summer PTA Courses

**COURSE DESCRIPTION:** This course is designed to provide the PTA student with an understanding of physiological abnormalities, diseases or disorders and their commonly prescribed medications and the implications for the provision of physical therapy.

**CREDIT HOURS:**            3 credit hours / non-transferable

**TARGET AUDIENCE**        Students admitted to the PTA Program

#### **REQUIRED MATERIALS:**

Required:

Goodman CC, Fuller KS, Boissonault WG. Pathology Implications for the Physical Therapist. 2<sup>nd</sup> ed. Philadelphia: Saunders; 2003.

Pierson FM. Principles and Techniques of Patient Care. 3<sup>rd</sup> ed. Philadelphia: W.B.Saunders Company; 2002.

O'Sullivan SB, Schmitz TJ. Physical Rehabilitation Assessment and Treatment. 4<sup>th</sup> ed. Philadelphia: FA Davis Company, 2001.

#### **COURSE OBJECTIVES:**

Upon successful completion of this course, the student will:

1. Identify the definition, etiology, risk factors, pathogenesis, clinical manifestation, medical management (diagnosis, treatment, prognosis) and implications for physical therapy for the diseases and disorders covered in this course including:
  - Scoliosis
  - Fracture
  - Osteoporosis
  - Paget's Disease
  - Osteomyelitis
  - Legg – Calve – Perthes Disease
  - Osgood Schlatter
  - Infectious Arthritis
  - Osteoarthritis

Rheumatoid Arthritis  
Ankylosing Spondylitis  
Degenerative Intervertebral Disk Disease  
Ischemic Heart Disease: Arteriosclerosis, Atherosclerosis  
Angina Pectoris  
Hypertension  
Myocardial Infarction  
Congestive Heart Failure  
Orthostatic Hypotension  
Cardiomyopathy  
Arrhythmias  
Disease of the Valves  
Peripheral Vascular Disease  
    Inflammatory Disorders:    vasculitis, thromboangitis obliterans  
    Arterial Occlusive Disease:  arterial thrombosis & embolism, arteriosclerosis obliterans  
    Venous Disease:          thrombophlebitis, varicose veins, chronic venous insufficiency  
    Vasomotor Disorders: Raynaud's Disease / Phenomenon  
Diabetes Mellitus  
Hyperglycemia  
Diabetes Insipidus  
Pneumonia  
Pulmonary Tuberculosis  
Cystic Fibrosis  
COPD  
Emphysema  
Asthma  
Oncology  
Acquired Immune Deficiency Syndrome  
Autoimmune Diseases  
    Systemic Lupus Erythematosus  
    Fibromyalgia  
Anemia  
Leukemia  
Hiatal Hernia  
Gastroesophageal Reflux Disease

Note: Neurological diseases are covered in PHTA 2342 Neurophysiology  
    Pediatric diseases & conditions are covered in PHTA 2321 Therapeutic Exercise  
    Orthopedic conditions are covered in PHTA 2231 Theory & Treatment

2. Access basic information about pharmacological agents.
3. Apply basic principles of pharmacology, clinical diagnosis & tests, and pathology to common physical therapy clinical situations.
4. Identify &/or describe specialized equipment utilized in acute &/or critical patient care, and the implications / precautions for the provision of physical therapy.

5. Recognize common laboratory tests and their implications to the provision of physical therapy.
6. Recognize common diagnostic tests and their implication to the provision of physical therapy.
7. Locate information on common diseases and conditions seen in physical therapy