STANDARD COURSE OUTLINE

PHTA 2213: PATHOPHYSIOLOGICAL CONDITIONS

PREREQUISITES:

MATH	*1204*	*College Algebra* ***OR***
MATH	*1003*	*Math for AAS*
BIOL	*2214*	*Anatomy & Physiology I*
BIOL	*2224*	*Anatomy & Physiology II*
PSYC	*2003*	*General Psychology*
ENGL	*1013*	*English Composition I*
ENGL	*1023*	*English Composition II* ***OR***
ENGL	*2013*	*Technical Writing*
AHSC	*1001*	*Medical Terminology*
CISQ	*1103*	*Introduction To Computer Information*
PHTA	*2105*	*Clinical Kinesiology*

Admission into the Physical Therapist Assistant Program

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

CREDIT HOURS: 3 credit hours / 3.5 contact hours/ 3 load hours non-transferable

TARGET AUDIENCE Students admitted to the PTA Program

REQUIRED MATERIALS: See the Instructor for Details

LEARNING OUTCOMES: Upon successful completion of this course, the student should be able to:

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
Amputation
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

TOPICS:

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
Amputation
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

Pharmacological agents.
Specialized equipment utilized in acute &/or critical patient care, and the implications / precautions for the provision of physical therapy.
Common llaboratory tests and their implications to the provision of physical therapy.

FORMS OF ASSESSMENT:
Assignments
Quizzes
Examinations