

Northwest Arkansas Community College
Health Professions Division
Physical Therapy Assistant Program

Discipline Code

PHTA

Course Number

2213

Course Title

Pathophysiological Conditions

Catalog Description

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

Prerequisites

PHTA 2105/BIOL 2224. A list of required general education courses for each program is available on the PTA website and must be passed with a grade of C or better for students to be considered eligible for acceptance into the PTA program

Credit Hours

3 credit hours

Contact hours

45 lecture contact hours

Load hours

3 load hour

Semesters Offered

Fall, Spring

ACTS Equivalent

None

Grade Mode

A-F

Learning Outcomes

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

1. Define and explain, etiology, risk factors, pathogenesis, clinical manifestation, medical management (diagnosis, treatment, prognosis) and implications for physical therapy for the diseases and disorders of the integumentary, cardiovascular, endocrine and metabolic, gastrointestinal, hematologic, immune, lymphatic, musculoskeletal, nervous, respiratory, and renal covered in this course including:

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 s 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

2. Assess basic information about pharmacological agents.

3. Apply basic principles of pharmacology, clinical diagnosis & tests, and pathology to common physical therapy clinical situations per PT POC.

4. Identify 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 performance of interventions in the provision of the PT POC

6. Recognize common diagnostic lab tests and their implications in the provision of interventions of the PT POC

7. Locate information on common diseases and conditions seen in physical therapy

8. Given an ICU mock scenario, review patient health records, PT POC, and patient assessment prior to performing the appropriate interventions considering all equipment and contraindications and precautions.

General Education Outcomes Supported

- Students develop higher order thinking skills.
- Students can employ a variety of sources to locate, evaluate, and use Information.

