

## STANDARD COURSE OUTLINE

### PHTA 2361 Pediatrics

### PHTA 2371 Pediatrics Lab

#### PREREQUISITE

MATH	1204	College Algebra	<b>OR</b>
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	<b>OR</b>
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

Completion of summer and fall semester PTA Program technical courses

#### COURSE DESCRIPTION

**PHTA 2361: Pediatrics:** This course is designed to provide the PTA student with an entry level understanding of the theory and clinical application of various types of exercises, neurophysiological treatment techniques, and equipment needs for the pediatric patient with emphasis on lesions of the central nervous system.

**PHTA 2371: Pediatrics Lab:** Lab Skills to Accompany PHTA 2361

#### CREDIT HOURS:

**PHTA 2361:** 1 credit hour/non-transferable/ 1 load hour

**PHTA 2371:** 1 credit hour/non-transferable / 3 load hours

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

**INSTRUCTIONAL MATERIALS:** See Instructor for Details

#### COURSE OBJECTIVES

##### PEDIATRIC COURSE AND MODULE OBJECTIVES

1. Describe and demonstrate the developmental progression of normal motor behavior in terms of:
  - a. patterns of gross and fine motor development
  - b. reflex development and integration
  - c. righting and equilibrium reactions

- d. sequence of neurodevelopmental postures
  - e. development of motor control skills
  - f. mobility and ambulation skills
2. Explain in written and verbal form the typical sensory motor characteristics of each of the following diagnosis. Identify common goals and treatment approaches for children with:
    - a. Spastic CP
    - b. Athetoid CP
    - c. Ataxic CP
    - d. Clumsy Child
    - e. Spina Bifida
    - f. Down Syndrome
    - g. Mental Retardation
  3. Explore options in the use of equipment and positions for learning and play.
  4. List the areas of the child's family life that are considered when implementing a treatment program.
  5. Explain the effects of muscle tone, obligatory reflexes, sensory disturbance, weakness, instability and poor coordination on movement. Describe and demonstrate 2-3 treatment strategies to address each of these clinical signs.
  6. Identify the rationale and demonstrate appropriate treatment procedures for commonly treated neuromuscular clinical signs of pediatric patients.
  7. Demonstrate understanding of pediatric vital signs to include appropriate vital sign ranges.
  8. Identify knowledge and expertise in the attainment of pediatric vital signs.
  9. Identify various types of orthotics and their indications for use in the pediatric population.
  10. Given a case scenario with clinical signs and symptoms, PT GOALS and a POC, select appropriate treatment strategies to meet goals within POC for pediatric patients with a variety of diagnosis.
  11. Given a case scenario with clinical signs and symptoms, PT GOALS, and a POC, student demonstrates ability to adjust interventions within the POC.
  12. Demonstrate ability to perform documentation from pediatric scenarios or videos of treatment.

## TOPICS

Developmental progression of normal motor behavior in terms of:

Pediatric:

Patterns of gross and fine motor development

Reflex development and integration

Righting and equilibrium reactions

Sequence of neurodevelopmental postures

Development of motor control skills  
Mobility and ambulation skills

Diagnosis, clinical presentation and implications, common goals & treatment approaches for the following: Spastic CP, Athetoid CP, Ataxic CP, Clumsy Child, Spina Bifida, Down Syndrome, Mental Retardation

Equipment and positions for learning and play

Muscle tone, obligatory reflexes, sensory disturbance, weakness, instability and poor coordination

Pediatric vital signs to include appropriate vital sign ranges.

Pediatric orthotics

Documentation

**METHODS OF INSTRUCTION:**

Exams

Quizzes

Assignments

Research Paper