STANDARD COURSE OUTLINE

PHTA 2361 Pediatrics
PHTA 2371 Pediatrics Lab

PREREQUISITE

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

TARGET AUDIENCE Students admitted to the PTA Program

INSTRUCTIONAL MATERIALS: See Instructor for Details

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

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
Clinical Observation
Lab Activities