

Course Information

Course Title	Management of Neurological Disorders
Course Prefix, Num. and Title	PTHA 2431: Management of Neurological Disorders
Division	Allied Health:
Department	Physical Therapist Assistant
Course Type	WECM Course
Course Catalog Description	Comprehensive rehabilitation techniques of selected neurological disorders.
Pre-Requisites	PTHA 1360 and PTHA 2205. [Offered during the fall semester to second year PTA student
Co-Requisites	Enter Co-Requisites Here.

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	4:3:4
Lab/Other Hours	
Equated Pay Hours	5
Lab/Other Hours Breakdown: Lab Hours	4
Lab/Other Hours Breakdown: Clinical Hours	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Department Head:	Kelly Wallace	9/9/2023
Division Chair:	CJDerkowski	10/24/2023
Dean/VPI:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

1. Role of the PTA in neurological rehabilitation
2. Pediatric motor development, reflex behaviors and cerebral palsy
3. Review of pertinent adult neuroanatomy
4. Motor, sensory, and coordination assessment
5. Stroke, TIA, and traumatic brain injury
6. Multiple sclerosis, Parkinson's disease, and spinal cord injury
7. Theoretical approach to neurological treatment
8. Rehabilitation of the stroke patient
9. PNF, NDT, Swiss Ball, and balance training
10. Alternative movement related therapies
11. Hippotherapy
12. The prescription wheelchair
13. Physical therapy in the public schools
14. Lab skills on positioning a stroke on the affected and unaffected side
15. Lab skills on the progression of pre-gait mat activities
16. Lab skills on the stages of motor control and application of isometrics, alternating isometrics, weight shifting and slow-reversal holds
17. Lab skills on the correct application of PNF diagonal patterns
18. Lab skills on the application of the "Forced-Use Paradigm"
19. Lab skills on how associated reactions might be helpful in facilitating neurological rehabilitation

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

Describe the management of patients with neurological disorders; demonstrate intervention techniques for neurological disorders; and communicate the outcomes of the intervention

Methods of Assessment:

1. 5 Written exams
2. Comprehensive Final
3. Project

Required text(s), optional text(s) and/or materials to be supplied by the student:

O'Sullivan & Schmitz (2019). Physical Rehabilitation: Assessment and Treatment (7th ed.). Philadelphia: F.A. Davis Company
Martin & Kessler (2016). Neurologic Interventions for Physical Therapy. (3rd ed.) Philadelphia: W.B. Saunders

Suggested Course Maximum:

16

List any specific or physical requirements beyond a typical classroom required to teach the course.

Lecture, Laboratory and PowerPoint presentations

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

5 Written Exams.....70%
Comprehensive Final.....25%
Project.....5%

100 - 90 = A, 89 - 80 = B, 79 - 75 = C, 74 - 70 = D, Below 59 = F

A 75% or above must be achieved on the final exam for successful passage of this course

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist