

SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
PTA 225S NEUROLOGICAL REHABILITATION
5 CREDIT HOURS

COURSE DESCRIPTION

Applies concepts, skills and behaviors to neurologically impaired patient/client to achieve and master planning and delivery of a Physical Therapist's plan of care. Self-care, home management, work and leisure integration and reintegration are studied. Laboratory component. Prerequisite: PTA 210S; PTA 215S. Co-requisite: PTA 220S and PTA 230S. Lab fee.

COURSE GOALS

The student will:

Bloom's Level		Program Outcomes
3	1. Demonstrate competence in implementing selected components in the plan of care to achieve short-and long-term goals and intended outcomes as applied to neuromuscular diagnoses.	1,2,7,14
3	2. Use safe, legal, and ethical performance of physical therapy interventions as applied to neuromuscular diagnoses.	1,2,3,14
3	3. Report the status and progression of patients with neuromuscular diagnoses.	5
1	4. Identify incremental stages for exercise progression within the established plan of care for a given patient with a neuromuscular diagnosis.	1,7,14
3	5. Apply knowledge from literature to guide understanding of the plan of care.	6
3	6. Identify and modify an intervention for major muscle substitutions while observing a given functional activity.	1,7,12
1	7. Identify the level of functional status and recognize changes in function and performance as it applies to patients with a neuromuscular diagnosis.	1,7,14
5	8. Compile the concepts involved with an assistive or orthotic device during function to demonstrate the safe fit, care, and training of use of these devices as applied to patients/clients with neuromuscular diagnoses.	1,7,12,14
3	9. Demonstrate an understanding of the relationship of external support to postural needs in making recommendations for adaptive seating.	1,7,12,14
5	10. Reinforce as directed by the supervising physical therapist education of caregivers or other healthcare team members in the use of assistive or orthotic devices, transfers, and/or body mechanics.	5,12,14
5	11. Devise, outline, and reinforce a home exercise program for a patient/client with a neuromuscular diagnosis within a given plan of care.	5,14
2	12. Interpret emergency situations that may be encountered when working in a physical therapy department or clinic setting.	1,2,3,4
2	13. Participate in the discharge planning and follow-up of patients with a neuromuscular diagnosis as directed by the physical therapist.	2,3,14
3	14. Prepare and present an effective and efficient mini-instructional unit for classmates using PowerPoint slides, handouts, and an evaluation tool for feedback.	3,6
5	15. Exemplify behaviors consistent with the expected norms for a physical therapist assistant.	2,3

3	16. Articulate an understanding of the role of the physical therapist assistant in recreation and leisure activities for the population with neuromuscular diagnoses.	3,4,5
3	17. Demonstrate an understanding of the relationship between patient's performance and progress and reimbursement received.	3
4	18. Compare and contrast physical therapy services provided in a school-based and medical model.	2,3,4
2	19. Participate as directed by the supervising Physical Therapist in educating caregivers or other healthcare team members in the use of assistive, orthotic, or prosthetic devices, transfers and/or body mechanics.	5,12,14
5	20. Assist in modification of the discharge plan and follow-up of patients as directed by the Physical Therapist.	2,3,14
1	21. List deviations from normal for fine and gross motor development.	1,7
4	22. Compare the functional advantages to disadvantages of using a wheelchair to assist with function.	1,7,12
4	23. Examine, analyze, and demonstrate balance deviations and treatments for neurological insults, including but not limited to: Parkinson's, Traumatic Brain Injury, Spinal Cord Injury, and Multiple Sclerosis, as well as pain resulting from neurological insults.	1,12,14
4	24. Analyze strategies to address decubitus ulcers in patients with neurological diagnoses of but not limited to Spinal Cord Injury, Traumatic Brain Injury, and Spina Bifida.	1,7,9
5	25. Explain the roles of the Physical Therapist and the Physical Therapist Assistant.	3,6
3	26. Name and manipulate the basic components of a standard manual wheelchair.	1
4	27. Analyze and create the changes needed in the environment to manipulate a wheelchair.	1,7,12

CORE VALUES

The Core Values are a set of principles that guide in creating educational programs and environments at Edison. They are communication, ethics, critical thinking, human diversity, inquiry and respect for learning, and interpersonal skills and teamwork. The goals, objectives, and activities in this course will introduce or reinforce those Core Values whenever possible.

TOPIC OUTLINE

1. Adaptive seating (wheelchairs)
2. Assistive devices for activities of daily living (ADL's); positioning and mobility
3. PTA role in discharge planning
4. Emergency situation management
5. Ethical practice of the PTA
6. Pediatric neurological diagnoses
7. Plan of care
8. Recreation and leisure for patients with neurological diagnoses
9. Reimbursement
10. School-based physical therapy
11. Spinal deformities
12. Neurological specific interventions