

## Master Syllabus

### PTA 2305 - Neuromuscular Rehabilitation

**Division:** Health Sciences

**Department:** Rehabilitation Services

**Credit Hour Total:** 2.0

**Lab Hrs:** 6.0

**Prerequisite(s):** PTA 1220

**Other Prerequisite(s):** Restricted to Majors

**Date Revised:** February 2018

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#### Course Description:

Use of therapeutic interventions for neurological and pediatric pathologies. Six lab hours per week.

#### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

#### Course Outcomes:

##### Amputee

The student will understand principles and techniques for the management of the amputee patient and be able to select appropriate therapeutic interventions based on the physical therapist's plan of care and have the ability to modify treatment based on patient response.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

77% or higher based on written exams and team exercises

**Assessment Method:** Simulations

**Performance Criteria:**

Able to demonstrate 100% accuracy in simulated treatments on check-offs and competencies, with faculty feedback and repeated practice

##### Pediatrics

The student will understand the principles of normal development and the treatment of the pediatric patient, select appropriate therapeutic interventions based on the physical therapist's plan of care, and be able to successfully monitor and modify treatment based on the pediatric patient's response.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

77% or higher based on written exams and team exercises

**Assessment Method:** Simulations

**Performance Criteria:**

Able to demonstrate 100% accuracy in simulated treatments on check-offs and competencies, with faculty feedback and repeated practice

##### Principles

The student will understand the principles of neuromuscular treatments and how to apply them to patients with neurological impairment with varying levels of severity.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

77% or higher based on written exams and team exercises

##### Intervention Selection

The student will assess the appropriate timeframe in which to perform patient assessment and treatment techniques, monitor patient response to interventions, and determine when modifications to techniques are necessary for the neurologically involved patient.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

77% or higher based on written exams and team exercises

**Assessment Method:** Oral examination

**Performance Criteria:**

77% or higher on lab practicals

**Assessment Method:** Simulations

**Performance Criteria:**

Able to demonstrate 100% accuracy in simulated treatments on check-offs and competencies, with faculty feedback and repeated practice

**Intervention Application**

The student will instruct patients with neurological involvement in positioning, bed mobility, transfers, pre-gait, gait and balance skills commensurate with the patient's level of need and understanding utilizing the most appropriate techniques in a safe and effective manner and be able to appropriately document patient treatment.

**Assessment Method:** Oral examination

**Performance Criteria:**

77% or higher on lab practicals

**Assessment Method:** Simulations

**Performance Criteria:**

Able to demonstrate 100% accuracy in simulated treatments on check-offs and competencies, with faculty feedback and repeated practice

**Outline:**

Normal development and pediatric treatment

Developmental reflexes

Traumatic brain injury pathology and treatment

Spinal cord injury pathology and treatment

Cerebrovascular accident pathology and treatment

Treatment and management of amputees