

## Master Syllabus

### PTA 2230 - Neuromuscular Rehabilitation

**Division:** Health Sciences

**Department:** Rehabilitation Services

**Credit Hour Total:** 4.0

**Lecture Hrs:** 4.0

**Prerequisite(s):** PTA 1144

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

**Date Revised:** March 2015

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### Course Description:

Structure and function of the nervous system, including changes across the life span and impact on human development. Use of therapeutic interventions for neurological, cardiovascular and pediatric pathologies. Two classroom, four lab hours per week.

### General Education Outcomes:

- Information Literacy Competency
- Critical Thinking/Problem Solving Competency
- Oral Communication Competency
- Written Communication Competency

### Course Outcomes:

#### Life span

Identify age-related physiologic and pathologic processes which influence rehabilitation.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Pass with 77% or better

**Assessment Method:** Standardized national examinations

**Performance Criteria:** Pass of national licensing examination with 75% or better

#### Developmental sequence

Demonstrate understanding of the developmental sequence and pediatric treatment interventions.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Pass with 77% or better

**Assessment Method:** Standardized national examinations

**Performance Criteria:** Pass of national licensing examination with 75% or better

#### Neurologic pathologies

Describe neurologic pathologies and demonstrate treatment interventions using accepted techniques.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Pass with 77% or better

**Assessment Method:** Performance appraisals

**Performance Criteria:** Complete 100% of skill competencies

**Assessment Method:** Simulations

**Performance Criteria:** Pass patient case presentation with 77% or better

#### Special populations

Integrate understanding of treatment interventions for special populations to include but not limited to amputation, bariatrics, lymphedema.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Pass with 77% or better

**Assessment Method:** Simulations

**Performance Criteria:** Pass case study with 77% or better

#### Adaptive and assistive equipment

Describe and demonstrate use and application of adaptive and assistive durable medical equipment.

**Assessment Method:** Performance appraisals

**Performance Criteria:** 100% passage of skill competencies

**Assessment Method:** Simulations

**Performance Criteria:** Pass case study with 77% or better

**Assessment Method:** Standardized national examinations

**Performance Criteria:** Passage of national licensing examination with 75% or better

#### Assessment

Employ assessment methods and tools for use in documenting patient response to treatment interventions.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Pass with 77% or better

**Assessment Method:** Written surveys and/or questionnaires  
**Performance Criteria:** Complete 100% of documentation

### **Central and peripheral nervous system**

Review and integrate knowledge of the nervous system with emphasis on anatomy and function.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** Pass with 77% or better

### **Outline:**

Central and peripheral nervous system pathways  
Changes across the life span/developmental sequence  
Assessment methods/tools  
Neurologic pathologies  
Special populations: amputees, bariatrics, lymphedema  
Prescription for adaptive and assistive durable medical equipment  
Management of a disability or impairment