



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Neurological Foundations for Rehabilitation  
**Course Number:** PTA136

### Required Materials

**Textbook(s):** Lazaro, R. T., & Umphred, D. A. (2020). *Umphred’s Neurorehabilitation for the Physical Therapist Assistant* (3rd ed.). Routledge.

**Required Readings:** See Below  
**Additional Materials:** None

### Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	-Nervous System Anatomy Review - Learning Strategies -Nervous System Anatomy Review:  Read Chapter 2 Umphred – Functional Neuroanatomy
2	-Autonomic Nervous System, Cranial Nerves, Neurotransmitters
3	-Brachial Plexus -Lumbosacral Plexus
4	Sensory and Motor Tracts
5	-Motor Control, Motor Learning, Motor Development:  Read Chapters 3 (Normal Movement Development Across the Lifespan) + 4 (Motor Control, Motor Learning, and Neuroplasticity) Umphred
6	-Intro to CNS Pathology  Read Umphred Chapters 8 (Roles of the Physical Therapist Assistant in Neurocritical Care) + 9 (Children with Central Nervous System Insult)
7	Review for Final Exam
8	Final