



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: PTA Procedures II Neuro
Course Number: PTA225

Required Materials

Textbook(s): O’Sullivan, S. B., Schmitz, T. J., & Fulk, G. D. (2019). *Physical rehabilitation: Assessment and treatment* (7th ed.). F.A. Davis.
 Lazaro, R. T., & Umphred, D. A. (2020). *Umphred’s Neurorehabilitation for the Physical Therapist Assistant* (3rd ed.). Routledge.

Required Readings: See below

Additional Materials: PhysioU (can be purchased in the Bookstore)
 Articles, PowerPoint slides, Handouts, Videos, and materials provided on Brightspace

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
Week 1	ICF Model Neuroplasticity Motor Learning Neurorehabilitation pp. 64-70 Motor Learning pp. 75-76 Neuroplasticity; optional pp. 61-64 Physical Rehabilitation pp. 340-346 Motor Learning Strategies
Week 2	Muscle Tone Slides Modified Ashworth Scale CVA Physical Rehabilitation pp. 143-148 (through Modified Ashworth Scale) Neurorehabilitation pp. 224-225 "Tone Abnormalities: Hypotonia and Hypertonia" Physical Rehabilitation Ch 15 - Stroke Neurorehabilitation Chapter 13 - Adult Clients with Stroke

Week	Chapter/Topic/Lab
Week 3	Motor Control and Postural Control Slides Tone Neurorehabilitation pp. 322-326 Physical Rehabilitation pp. 68, 126, 184, 336 feedforward and feedback
Week 4	Gait Gait Analysis Gait Standardized Tests Traumatic Brain Injury Physical Rehabilitation Chapter 19 "Traumatic Brain Injury" Neurorehabilitation Chapter 12 "Clients with Traumatic Brain Injury"
Week 5	Exam
Week 6	Traumatic Brain Injury Slides Parkinson's Disease Physical Rehabilitation Chapter 18 Neurorehabilitation Chapter 14 pp 351-357- Sections on PD
Week 7	Exam
Week 8	Parkinson's Disease cont. Genetic Disorders Dementias Neurorehabilitation Chapter 14 (pp 351-357 [Sections on Parkinson's Disease]) Physical Rehabilitation Chapter 18
Week 9	Lab Practical
Week 10	Exam PNF Therapeutic exercise Chapter 4 pp.; pp. 107-109; Chapter 6 pp. 220-229