

5/29/2025

DATE



REQUIRED COURSE



ELECTIVE COURSE

AHD DIVISION

 NEW COURSE REVISION

# Lake Land College

## Course Information Form

<b>COURSE NUMBER:</b>	PTA-086		<b>TITLE: (30 Characters Max)</b>		Neurology for the PTA								
<b>SEM CR HRS:</b>	2.0	<b>Lecture:</b>	2.0		<b>Lab:</b>	0.0	<b>ICCB Lab:</b>	0.0	<b>ECH:</b>	2.0			
<b>Course Level:</b>	<input type="checkbox"/> Gen Ed/IAI <input type="checkbox"/> Baccalaureate/Non-IAI		<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/Not in Degree Audit		<b>Clinical Practicum:</b>	0.0	<b>Work-based Learning:</b>	0.0	<b>WBL ECH:</b>	0.0			
<b>Course PCS &amp; CIP:</b>	12 - 51.0806		<b>IAI Code:</b>		N/A			<b>Contact Hours (Minutes/Week)</b>					
<b>Repeatable (Y/N):</b>	N	<b>Pass/Fail (Y/N):</b>	N	<b>Variable Credit (Y/N):</b>	N	<b>Min:</b>		<b>Max:</b>		16 Wks	100	8 Wks	200
<b>Prerequisites:</b>	PTA-082												
<b>Corequisites:</b>	None												
<b>Catalog Description: (40 Word Limit)</b>	This course will focus on the specific neuroscience concepts and principles that support rehabilitation therapy.												

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Brain function and disorders	5			
Cranial nerves	4			
Vestibular function and dysfunction	4			
Peripheral nerve system function and injury	4			
Spinal cord tracts and disorders	5			
Motor and sensory function and dysfunction	4			
Blood supply and occlusion of the brain	4			
<b>TOTAL</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>

### EVALUATION

<b>QUIZZES</b>	<input type="checkbox"/>	<b>EXAMS</b>	<input checked="" type="checkbox"/>	<b>ORAL PRES</b>	<input type="checkbox"/>	<b>PAPERS</b>	<input type="checkbox"/>
<b>LAB WORK</b>	<input type="checkbox"/>	<b>PROJECTS</b>	<input type="checkbox"/>	<b>COMP FINAL</b>	<input type="checkbox"/>	<b>OTHER</b>	<input type="checkbox"/>

### COURSE MATERIALS

<b>TITLE:</b>	Quick Reference Neuroscience for Rehabilitation Profess
<b>AUTHOR:</b>	Sharon Gutman
<b>PUBLISHER:</b>	Slack
<b>VOLUME/EDITION/URL:</b>	4th
<b>COPYRIGHT DATE:</b>	2025

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Brain function and disorders	5	1. Differentiate between the lobes of the brain and their disorders.
Cranial nerve	4	1. Identify the cranial nerve functions and symptoms.
Vestibular function and dysfunction	4	1. Explain the function of the vestibular system and its dysfunction.
Peripheral nerve system function and injury	4	1. Explain peripheral nerve injury and the regeneration process. 2. Identify the dermatome distribution.
Spinal cord tracts and disorders	5	1. Discuss what is carried on the ascending and descending tracts. 2. Identify where the tracts originate and end. 3. Discuss tract lesions.

Motor and sensory function and dysfunction	4	1. Describe the function and the roles the cerebral cortex, cerebellum and basal ganglia.
Blood supply and occlusion of the brain	4	1. Identify the major arteries and the common areas of arterial occlusion in the cortex.
	30	

<b>Outcomes*</b>	<b>Outcome Title</b>	<b>At the successful completion of this course, students will be able to:</b>
Course Outcome 1	Cntrl Peri Nerv Sys	Explain the function of the central and peripheral nerves system.
Course Outcome 2	Nerv Sys Injuries	Assess different injuries to the nervous system related to different parts of the nervous system.
Course Outcome 3	Role Nerv Sys Injury	Assess the role of nervous system related to different injuries.
Primary Laker Learning Competency Creative Thinking & Problem Solving: Students think creatively to solve problems.		
Secondary Laker Learning Competency	Critical Thinking: Students connect knowledge from various disciplines to formulate logical conclusions.	

\*Course and program outcomes will be used in the software for outcomes assessment and should include at least 1 primary and 1 secondary Laker Learning Competency. Limit to 3-5.