## STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY CANTON, NEW YORK



## **MASTER SYLLABUS**

## **COURSE NUMBER – COURSE NAME PHTA 205 – Neuromuscular Pathologies**

Created by: Jennifer McDonald

Updated by: Jennifer McDonald

School of Science, Health, and Criminal Justice

**Department: Physical Therapist Assistant** 

Semester/Year: Fall 2021

<b>A.</b>	TITLE: Neuromuscular Pathologies
В.	COURSE NUMBER: PHTA 205
C.	<u>CREDIT HOURS</u> : (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)
	# Credit Hours: 4 # Lecture Hours: 2 per week # Lab Hours: 4 per week Other: per week
	Course Length: 15 Weeks
D.	WRITING INTENSIVE COURSE: Yes No
Е.	GER CATEGORY: None: Yes: GER  If course satisfies more than one: GER
F.	SEMESTER(S) OFFERED: Fall  Spring Fall & Spring
G.	COURSE DESCRIPTION:
system neurolo develo	course, students will study neuroanatomy as applied to peripheral and central nervous disorders. Principles of neurological rehabilitation and management of patients with ogical conditions are discussed and applied. Students learn about normal motor pment, theories of motor control, and motor learning as applied to the rehabilitation of s with neuromuscular conditions.
Н.	PRE-REQUISITES: None ☐ Yes ☒ If yes, list below:
PHTA	104, BIOL 217, BIOL 281 or permission of instructor
	<b><u>CO-REQUISITES</u></b> : None ⊠ Yes ☐ If yes, list below:

## I. <u>STUDENT LEARNING OUTCOMES</u>: (see key below)

By the end of this course, the student will be able to:

Course Student Learning Outcome	Program Student		ISLO & SUBSETS	
[SLO]	Learning	<u>GER</u>		
	Outcome	[If		
	[PSLO]	Applicable]		
1. Apply knowledge of neuroanatomy to	PSLO5 Communicate		5-Ind, Prof, Disc, Know Skills	
understand clinical presentation, medical	an understanding of		ISLO	Subsets
management, and principles of	the plan of care		ISLO	Subsets
rehabilitation for central and peripheral	developed by the			Subsets
neuromuscular pathologies.	physical therapist to			
	achieve short and			
	long term goals and			
	intended outcomes.		(1.1.b. (.b., 1/. (1.11	N.T
2. Appropriately instruct patients with	9. Participate in		5-Ind, Prof, Disc, Know Skills ISLO	
neuromuscular pathologies in rehabilitation techniques based on the physical therapy	educating and providing patient-		ISLO	Subsets Subsets
plan of care.	related instruction to		ISLO	Subsets
pian of care.	patients, family			Subscis
	members, and			
	caregivers based on			
	the plan of care.			
3. Differentiate between concepts of motor	PSLO5 Communicate		5-Ind, Prof, Disc, Know Skills	None
control, motor learning, and motor	an understanding of		ISLO	Subsets
development as applied to rehabilitation.	the plan of care		ISLO	Subsets
	developed by the			Subsets
	physical therapist to			
	achieve short and			
	long term goals and			
	intended outcomes.			
4. Demonstrate comprehension of the	PSLO5 Communicate		5-Ind, Prof, Disc, Know Skills	
physical therapy plan of care for patients	an understanding of		ISLO	Subsets
with neurological pathologies through case	the plan of care		ISLO	Subsets
study implementation.	developed by the			Subsets
	physical therapist to achieve short and			
	long term goals and			
	intended outcomes.			
5. Demonstrate awareness of changes in	PSLO8. Demonstrate		2-Crit Think	None
patient status when working with a patient	sound clinical		ISLO	Subsets
with a neurological pathology and make	problem solving in		ISLO	Subsets
appropriate decisions using the Problem-	the provision of			Subsets
Solving Algorithm for the PTA.	physical therapy			
	services.			
6. Demonstrate effective communication	PSLO1.		1-Comm Skills	O
skills while acting as a student PTA during	Communicate		ISLO	Subsets
lab competencies & practicals.	verbally and non-		ISLO	Subsets
	verbally with the			Subsets
	patient, the physical			
	therapist, health care			
	delivery personnel,			
	and others in an			
	effective, appropriate,			
	and capable manner.	1		

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7. Produce clear, accurate, concise, timely,	PSLO10. Complete accurate and timely	5-Ind, Prof, Disc, Know Ski ISLO	IIsNone Subsets
and legible documentation.	documentation in	ISLO	Subsets
	accordance with	ISLO	Subsets
	regulatory guidelines		Subscis
	to support the		
	delivery of physical		
	therapy services.		
8. Demonstrate competence in performing	PSLO7. Demonstrate	5-Ind, Prof, Disc, Know Ski	llsNone
data collection techniques necessary for	competency in	ISLO	Subsets
management of patients with neuromuscular	performing	ISLO	Subsets
pathologies.	components of data		Subsets
	collection skills		
	essential for carrying		
	out the plan of care		
9. Demonstrate the ability to adjust	PSLO5 Communicate	5-Ind, Prof, Disc, Know Ski	llsNone
components of treatment as necessary	an understanding of	ISLO	Subsets
within the guidelines of the plan of care	the plan of care	ISLO	Subsets
through case scenario implementation.	developed by the		Subsets
	physical therapist to		
	achieve short and		
	long term goals and		
	intended outcomes.		
10. Recognize individual differences and	PSLO2. Recognize	4-Soc Respons	IK
needs and respond appropriately through	individual	ISLO	Subsets
case study implementation.	differences, values,	ISLO	Subsets
	preferences, and		Subsets
	expressed needs and		
	respond appropriately		
	in all aspects of		
	physical therapy		
12 M : 4 : C 1: : 0	services.	5 L 1 D . C D' . V 0	NT
12. Maintain a safe working environment &	PSLO4. Demonstrate	5-Ind, Prof, Disc, Know & Skills	None
ensure safety of patient and self during all	safe practice in all situations.		Subsets
interactions.	situations.	ISLO ISLO	Subsets Subsets
		ISLO	Subsets
13. Describe considerations for discharge	PSLO5 Communicate	5-Ind, Prof, Disc, Know &	None
planning for a patient with a neurological	an understanding of	Skills	Subsets
pathology.	the plan of care	ISLO	Subsets
	developed by the	ISLO	Subsets
	physical therapist to		
	achieve short and		
	long term goals and		
	intended outcomes.		
14. Describe effective interaction with	PSLO12. Participate	5-Ind, Prof, Disc, Know &	None
members of the interprofessional team	in activities that	Skills	Subsets
when working with patients with	contribute to the	ISLO	Subsets
neuromuscular pathologies.	effective function of	ISLO	Subsets
	the healthcare		
	environment.		
15. Provide accurate billing following case	PSLO13. Participate	 5-Ind, Prof, Disc, Know &	None
scenario implementation.	in practice	Skills	Subsets
	management	ISLO	Subsets
	functions within a	ISLO	Subsets
	physical therapy		
	service, including		
	billing and		
	organizational		
	planning.		

16. Demonstrate competence in	PSLO #6	5 – Ind, Prof, Disc, Know	None
performing physical therapy	Demonstrate	Skills	
interventions related to	competence in		
rehabilitation of the patient with a	implementing and		
neuromuscular pathology,	adjusting selected		
including:	components of		
a. Peripheral nerve disorders	interventions		
<ul> <li>b. Spinal cord injury</li> </ul>	identified in the plan		
c. Stroke	of care established by		
d. Brain Injury	the physical therapist.		
e. Multiple Sclerosis			
f. Parkinson Disease			
g. Amyotrophic Lateral			
Sclerosis			
h. Genetic & Developmental			
Disorders			

KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS]
3	Foundational Skills Information Management [IM], Quantitative Lit,/Reasoning [QTR]
4	Social Responsibility Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]
5	Industry, Professional, Discipline Specific Knowledge and Skills

<sup>\*</sup>Include program objectives if applicable. Please consult with Program Coordinator

J.	APPLIED LEARNING COMPONENT:	Y es 🔀	No 📙
	If YES, select one or more of the following categor	ries:	
	Classroom/Lab		
	Internship		
	Clinical Placement		
	Practicum		
	Service Learning		
	Community Service		
	_		
	Civic Engagement		
	Creative Works/Senior Project		
	Research		
	☐ Entrepreneurship		
	(program, class, project)		

	ological Interventions for Physical Therapy, 4th ed, Martin S, Kessler M., Saunders Elsevier, 2019. Cal Rehabilitation: Assessment and Treatment, 7th Ed., O'Sullivan, S.B. and Schmitz, T.J., F.A. Davis, 2019.	
L.	REFERENCES:	
Physical Therapy Clinical Handbook for PTAs, 3rd Ed., Cikulin-Kulinski, Jones & Bartlett, 2018. Clinical Kinesiology& Anatomy, 6th Ed, Lippert, L., F.A. Davis, 2017. Therapeutic Exercise: Foundations & Techniques, Kisner, C., Colby, L., Borstad, J, 7th ed. FA Davis, 2018 Pathology for the Physical Therapist Assistant, 2nd Ed, Goodman, C., Marshall, C., Saunders, 2016.		
1 atmo	logy for the Fifysical Therapist Assistant, 2nd Ed, Goodman, C., Marshan, C., Saunders, 2010.	
М.	<b>EQUIPMENT</b> : None Needed:	
N.	GRADING METHOD:	
О.	SUGGESTED MEASUREMENT CRITERIA/METHODS:	
P.	DETAILED COURSE OUTLINE:	
Q.	LABORATORY OUTLINE: None  Yes	

**TEXTS**:

K.