



North Central State College  
MASTER SYLLABUS  
2019-2020

- A. Academic Division: Health Sciences
- B. Discipline: Physical Therapist Assistant
- C. Course Number and Title: PHTA1110 Neuromuscular Rehabilitation
- D. Course Coordinator: Heidi Kreglow, MPT  
Assistant Dean: Melinda Roepke, MSN, RN

Instructor Information:

- Name: [Click here to enter text.](#)
- Office Location: [Click here to enter text.](#)
- Office Hours: [Click here to enter text.](#)
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- E. Credit Hours: 4  
Lecture: 2 hour  
Laboratory: 5 hours
- F. Prerequisites: PHTA1010, PHTA1040, PHTA1070  
Co-requisite: PHTA1090 (M)
- G. Syllabus Effective Date: Fall, 2019
- H. Textbook(s) Title:

*Neurologic Interventions for Physical Therapy*

- Authors: Martin and Kessler
- Copyright Year: 2007
- Edition: 2<sup>nd</sup> or latest
- ISBN #: 0-7216-0427-7

*Physical Rehabilitation - Assessment and Treatment*

- Author: O'Sullivan and Schmitz
- Copyright Year: 2007
- Edition: Latest
- ISBN #: 0803612471

- I. Workbook(s) and/or Lab Manual: None
- J. Course Description: This is a continuation of didactic and technical instruction for clinical practice. This course covers normal and abnormal motor development, pediatric conditions affecting motor development, and interventions to address infant and pediatric conditions leading to motor delays and adult neurological disorders affecting motor function and interventions to address the motor deficits of individuals with neurological motor dysfunction. Wheelchair prescription and use as well as various transfers for pediatric and neurologically impaired individuals will also be covered.

K. College-Wide Learning Outcomes:

<b>College-Wide Learning Outcome</b>	<b>Assessments - - How it is met &amp; When it is met</b>
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

<b>Outcomes</b>	<b>Assessments – How it is met &amp; When it is met</b>
1. Demonstrate understanding of components of normal motor development.	Quizzes within first 8 weeks and Midterm exam
2. Demonstrate understanding of components of abnormal motor development.	Quizzes within first 8 weeks and Midterm exam
3. Identify normal gross and fine motor milestones for 1 <sup>st</sup> 5 years.	Quizzes within first 8 weeks and Midterm exam
4. Demonstrate components of righting reactions and mature equilibrium reactions in various positions/movements.	Pediatric skills checklist and Midterm lab practical exam.
5. Identify risk factors for motor development and neurological impairment.	Written midterm and final exams; Oral presentation during term
6. Identify signs/symptoms of over stimulation for infant in NICU or at risk.	Midterm exam
7. Identify common pediatric and adult neurological disorders, and the symptoms, as well as indications and contraindications for physical therapy intervention.	Written midterm and final exams; final lab practical exam
8. Implement treatment activities to address areas of concern listed on PT POC for pediatric and adult neurological patient.	Quizzes, Written midterm and final exams; Midterm and Final lab practical exams
9. Demonstrate positioning strategies, treatment strategies, and equipment usage to positively impact muscle tone, movement, and posture/alignment, skin integrity and function.	Midterm exam; Midterm Lab practical exam
10. Record simulated treatment in SOAP note format.	SOAP note assignment at midterm and final lab practical exam
11. Demonstrate simulated patient treatments in a technically correct manner.	Midterm and Final Lab practical exams
12. Synthesize information from patient scenarios and PT plan of care to develop and carry out treatment activities which meet parameters of plan of care.	Midterm and Final lab practical exam Midterm and Final exams
13. Interpret patient response to treatment and adjust treatment accordingly.	Midterm and Final lab practical exam
14. Complete W/C measurement	Lab skills checklist
15. Compare and contrast components of Ranchos Los Amigo Cognition Scale and Glasgow Coma Scale.	Final exam

<b>Outcomes</b>	<b>Assessments – How it is met &amp; When it is met</b>
16. Knowledgeably execute performance and balance assessments.	Mini-lab test
17. Perform PNF patterns in technically correct manor.	Mini-lab test

M. Topical Timeline (Subject to Change):

Week 1: Normal Motor Development/Movement Analysis  
 Week 2: Abnormal Development/Intro to NDT  
 Week 3: Developmental Transitions/Handling for High/Low Tone  
 Week 4: NICU/Sensory Integration therapy  
 Week 5: W/C Prescription  
 Week 6: Pediatric Conditions  
 Week 7: Pediatric Conditions  
 Week 8: Midterm Exam  
 Week 9: CVA/TBI  
 Week 10: SCI  
 Week 11: Facilitation/Inhibition  
 Week 12: Balance/Coordination/Vestibular  
 Week 13: PNF  
 Week 14: Adult Neuro Conditions  
 Week 15: Adult Neuro Conditions  
 Week 16: Final Exam

N. Course Assignments:

1. Midterm Lab practical exam	15%
2. Final Lab practical exam	15%
3. Mini-lab tests	10%
4. Oral Presentations	10%
5. Quizzes	10%
6. SOAP note assignment	5%
7. Written midterm exam	15%
8. Written final exam	20%

O. Recommended Grading Scale:

<b>NUMERIC</b>	<b>GRADE</b>	<b>POINTS</b>	<b>DEFINITION</b>
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70–72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63–66	D	1.00	Below Average
60–62	D-	0.67	Poor
00–59	F	0.00	Failure

P. Grading and Testing Guidelines:

This is a lecture/lab course which requires a passing grade of 77% in both the lecture and lab component. Lecture is worth 60% of the total grade and lab is worth 40% of the total grade. Once each component has been passed with a 77% grade the two components will be averaged for the final course grade. Students falling below 77% in either component will have failed to meet the requirements to continue in the PTA program.

Q. Examination Policy:

A student who misses a quiz for any reason must notify the instructor and make arrangements for making up the quiz. The student will have three school days from the quiz date to make it up.

A student who must miss an examination for any reason is responsible for notifying the instructor prior to the exam, if possible, or within 24 hours of missed exam, and to make arrangements for making up the examination. The student will have a maximum of five school days from the date of the examination in which to make it up. If the instructor is not notified regarding a missed exam, the student will receive an automatic "0" on the exam.

Final exams will be held as scheduled. Requests to take a final exam earlier should be made only under unusual and extenuating circumstances. These requests are to be submitted, in writing, no later than one week prior to the last class day of the term to the Program Director's office.

R. Class Attendance and Homework Make-Up Policy:

The PTA program is a series of sequential courses developed to build from one class session and course to the next. It is imperative that the student attend all class and laboratory sessions based on the progressive sequence and amount of educational material to be presented in six semesters. All instructors will maintain attendance records and will follow college attendance guidelines and policies.

It will be the responsibility of the student to obtain lecture notes and to make up laboratory sessions. Any student missing two or more classes will be required to meet with the Program Director. Students have a primary responsibility for notifying their instructors about anticipated or planned absences.

S. Classroom Expectations:

Students are expected to attend every class session and listen attentively and interact and behave in a professional manner conducive to learning. If a student is found to be disrupting a class session he/or she may be asked to leave the classroom upon the discretion of the instructor and then be required to meet with the Program Director discuss professional behavior and expectations.

T. College Procedures/Policies:

**Important information regarding College Procedures and Policies can be found on the [syllabus supplement](#) located at**

**<https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf>**

**The information can also be found** [Choose an item.](#)