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
A. **TITLE:** Neuromuscular Pathologies

B. **COURSE NUMBER:** PHTA 205

C. **CREDIT HOURS:** (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 ☐

E. **GER CATEGORY:** None: ☐ Yes: GER

   *If course satisfies more than one:* GER

F. **SEMESTER(S) OFFERED:** Fall ☐ Spring ☐ Fall & Spring ☐

G. **COURSE DESCRIPTION:**

   In this course, students will study neuroanatomy as applied to peripheral and central nervous system disorders. Principles of neurological rehabilitation and management of patients with neurological conditions are discussed and applied. Students learn about normal motor development, theories of motor control, and motor learning as applied to the rehabilitation of patients with neuromuscular conditions.

H. **PRE-REQUISITES:** None ☐ Yes ☒ If yes, list below:

   PHTA 104, BIOL 217, BIOL 281 or permission of instructor

   **CO-REQUISITES:** None ☐ Yes ☐ If yes, list below:
I. **STUDENT LEARNING OUTCOMES:** *(see key below)*

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

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>Program Student Learning Outcome [PSLO]</th>
<th>GER [If Applicable]</th>
<th>ISLO &amp; SUBSETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Apply knowledge of neuroanatomy to understand clinical presentation, medical management, and principles of rehabilitation for central and peripheral neuromuscular pathologies.</td>
<td>PSLO5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<td>2. Appropriately instruct patients with neuromuscular pathologies in rehabilitation techniques based on the physical therapy plan of care.</td>
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<tr>
<td>3. Differentiate between concepts of motor control, motor learning, and motor development as applied to rehabilitation.</td>
<td>PSLO5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<tr>
<td>4. Demonstrate comprehension of the physical therapy plan of care for patients with neurological pathologies through case study implementation.</td>
<td>PSLO5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<tr>
<td>5. Demonstrate awareness of changes in patient status when working with a patient with a neurological pathology and make appropriate decisions using the Problem-Solving Algorithm for the PTA.</td>
<td>PSLO8. Demonstrate sound clinical problem solving in the provision of physical therapy services.</td>
<td>2-Crit Think ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<tr>
<td>6. Demonstrate effective communication skills while acting as a student PTA during lab competencies &amp; practicals.</td>
<td>PSLO1. Communicate verbally and non-verbally with the patient, the physical therapist, health care delivery personnel, and others in an effective, appropriate, and capable manner.</td>
<td>1-Comm Skills ISLO ISLO</td>
<td>O Subsets Subsets Subsets</td>
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<td>7. Produce clear, accurate, concise, timely, and legible documentation.</td>
<td>PSLO10. Complete accurate and timely documentation in accordance with regulatory guidelines to support the delivery of physical therapy services.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<td>8. Demonstrate competence in performing data collection techniques necessary for management of patients with neuromuscular pathologies.</td>
<td>PSLO7. Demonstrate competency in performing components of data collection skills essential for carrying out the plan of care</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<tr>
<td>9. Demonstrate the ability to adjust components of treatment as necessary within the guidelines of the plan of care through case scenario implementation.</td>
<td>PSLO5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.</td>
<td>5-Ind, Prof, Disc, Know Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<td>10. Recognize individual differences and needs and respond appropriately through case study implementation.</td>
<td>PSLO2. Recognize individual differences, values, preferences, and expressed needs and respond appropriately in all aspects of physical therapy services.</td>
<td>4-Soc Respons ISLO ISLO</td>
<td>IK Subsets Subsets Subsets</td>
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<td>12. Maintain a safe working environment &amp; ensure safety of patient and self during all interactions.</td>
<td>PSLO4. Demonstrate safe practice in all situations.</td>
<td>5-Ind, Prof, Disc, Know &amp; Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<td>13. Describe considerations for discharge planning for a patient with a neurological pathology.</td>
<td>PSLO5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.</td>
<td>5-Ind, Prof, Disc, Know &amp; Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<td>14. Describe effective interaction with members of the interprofessional team when working with patients with neuromuscular pathologies.</td>
<td>PSLO12. Participate in activities that contribute to the effective function of the healthcare environment.</td>
<td>5-Ind, Prof, Disc, Know &amp; Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<td>15. Provide accurate billing following case scenario implementation.</td>
<td>PSLO13. Participate in practice management functions within a physical therapy service, including billing and organizational planning.</td>
<td>5-Ind, Prof, Disc, Know &amp; Skills ISLO ISLO</td>
<td>None Subsets Subsets Subsets</td>
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<tr>
<td>KEY</td>
<td>Institutional Student Learning Outcomes [ISLO 1 – 5]</td>
<td>ISLO &amp; Subsets</td>
<td>5 – Ind, Prof, Disc, Know Skills</td>
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<tr>
<td>ISLO #</td>
<td>1</td>
<td>Communication Skills &lt;br&gt; Oral [O], Written [W]</td>
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<td>2</td>
<td>Critical Thinking &lt;br&gt; Critical Analysis [CA], Inquiry &amp; Analysis [IA], Problem Solving [PS]</td>
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<td>3</td>
<td>Foundational Skills &lt;br&gt; Information Management [IM], Quantitative Lit./Reasoning [QTR]</td>
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<td>4</td>
<td>Social Responsibility &lt;br&gt; Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</td>
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<td>5</td>
<td>Industry, Professional, Discipline Specific Knowledge and Skills</td>
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*Include program objectives if applicable. Please consult with Program Coordinator*
J. **APPLIED LEARNING COMPONENT:**

[ ] Yes  [ ] No

If YES, select one or more of the following categories:

- [x] Classroom/Lab
- [ ] Internship
- [ ] Clinical Placement
- [ ] Practicum
- [ ] Service Learning
- [ ] Community Service
- [ ] Civic Engagement
- [ ] Creative Works/Senior Project
- [ ] Research
- [ ] Entrepreneurship

(program, class, project)
K. TEXTS:


L. REFERENCES:

Therapeutic Exercise: Foundations & Techniques, Kisner, C., Colby, L., Borstad, J, 7th ed. FA Davis, 2018

M. EQUIPMENT: None □ Needed:

N. GRADING METHOD:

O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

P. DETAILED COURSE OUTLINE:

Q. LABORATORY OUTLINE: None □ Yes □