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

MASTER SYLLABUS

PHTA 206 – Advanced Physical Therapy Procedures

CIP Code: 51.0806

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School of Science, Health, & Professional Studies
Physical Therapist Assistant
Fall 2026

A. TITLE: Advanced Physical Therapy Procedures

B. COURSE NUMBER: PHTA 206

C. CREDIT HOURS (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity):

# Credit Hours per Week	**2**
# Lecture Hours per Week	**1**
# Lab Hours per Week	**3**
Other per Week	

D. WRITING INTENSIVE COURSE:

Yes	
No	x

E. GER CATEGORY:

Does course satisfy a GER category(ies)? If so, please select all that apply.

[1-2] Communication	
[3] Diversity: Equity, Inclusion & Social Justice	
[4] Mathematics & Quantitative Reasoning	
[5] Natural Science & Scientific Reasoning	
[6] Humanities	
[7] Social Sciences	
[8] Arts	
[9] US History & Civic Engagement	
[10] World History & Global Awareness	
[11] World Languages	

F. SEMESTER(S) OFFERED:

Fall	x
Spring	
Fall and Spring	

G. COURSE DESCRIPTION:

In this course students learn basic principles of electricity and application of electrotherapeutic agents for pain control, neuromuscular stimulation, and tissue healing. Students learn the application of spinal traction as a therapeutic modality. Specialty topics will be presented by guest clinicians and/or through case study introduction to prepare students for specialty populations and advanced therapeutic techniques they may encounter in final clinical experiences. Students will study pathophysiology of the endocrine/metabolic, gastrointestinal, hematologic, hepatic/biliary, renal and urologic systems as they relate to physical therapy management of a patient.

H. PRE-REQUISITES: PHTA 104, BIOL 217, BIOL 218
CO-REQUISITES: N/A

I. STUDENT LEARNING OUTCOMES:

Course Student Learning Outcome [SLO]	Program Student Learning Outcome [PSLO]	GER	ISLO & Subsets
1. Demonstrate safe and effective implementation of the following electrotherapeutic agents: a. TENS b. High Volt Stimulation/combo c. Interferential Stimulation d. Neuromuscular Electrical Stimulation	PSLO #6 Demonstrate competence in implementing and adjusting selected components of interventions identified in the plan of care established by the physical therapist.		ISLO 5 Industry, Professional, Discipline Specific Knowledge and Skills
2. Demonstrate safe and effective application of mechanical spinal traction.	PSLO #6 Demonstrate competence in implementing and adjusting selected components of interventions identified in the plan of care established by the physical therapist.		ISLO 5 Industry, Professional, Discipline Specific Knowledge and Skills
3. Discuss the principles of implementation, treatment rationale, safety considerations, and anticipated patient responses for select electrotherapeutic and mechanical agents.	PSLO #6 Demonstrate competence in implementing and adjusting selected components of interventions identified in the plan of care established by the physical therapist.		ISLO 5 Industry, Professional, Discipline Specific Knowledge and Skills
4. Maintain safe working environment and assure safety of patient and self during all interactions.	PSLO #4 Demonstrate safe practice in all situations.		ISLO 5 Industry, Professional, Discipline Specific Knowledge and Skills
5. Make appropriate adjustments to the administration of modalities within the plan of	PSLO #8 Demonstrate sound clinical problem		ISLO 2 Critical Thinking *Problem Solving [PS]*

care to maximize expected response to treatment.	solving in the provision of physical therapy services.		
6. Recognize when a modality should not be administered due to changes in patient status and communicate to physical therapist.	PSLO #8 Demonstrate sound clinical problem solving in the provision of physical therapy services.		ISLO 2 Critical Thinking *Problem Solving [PS]*
7. Discuss clinical presentation and physical therapy considerations for common conditions of the following systems: a. endocrine and metabolic b. gastrointestinal d. hematologic e. hepatic and biliary f. renal and urologic	PSLO #5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.		ISLO 5 Industry, Professional, Discipline Specific Knowledge and Skills
8. Discuss clinical presentation and rehabilitation considerations for special patient populations/conditions, including: Chronic Pain, Cancer, Pelvic Health, Pregnancy, Autoimmune Disease, Aging adults, and Hospice	PSLO #5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.		ISLO 5 Industry, Professional, Discipline Specific Knowledge and Skills
9. Demonstrate a basic understanding of advanced therapeutic techniques as an element of rehabilitation progression.	PSLO #5 Communicate an understanding of the plan of care developed by the physical therapist to achieve short and long term goals and intended outcomes.		ISLO 5 Industry, Professional, Discipline Specific Knowledge and Skills

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**

J. APPLIED LEARNING COMPONENT:

Yes	x
No	

If yes, select [X] one or more of the following categories:

Classroom / Lab	x	Community Service	
Internship		Civic Engagement	
Clinical Practicum		Creative Works/Senior Project	
Practicum		Research	
Service Learning		Entrepreneurship [program, class, project]	

K. TEXTS: Cameron, M.H., (2023) *Physical Agents in Rehabilitation*, St. Louis: Elsevier.

L. REFERENCES:

Kisner, C and Colby, L.A., (2023) Therapeutic Exercise: Foundations and Techniques,Philadelphia: F.A. Davis.
Marshall, C., (2024) Goodman and Fuller's Pathology for the Physical Therapist Assistant, St. Louis: Elsevier

M. EQUIPMENT: Physical Therapy Lab Equipment and Supplies

N. GRADING METHOD: A-F as per PTA program standards

The grading scale for the Physical Therapist Assistant program is as follows:

A	= 90-100	C	= 70-74
B+	= 85-89	D+	= 65-69
B	= 80-84	D	= 60-64
C+	= 75-79	F	= below 60

To meet PTA program requirements, PTA students are required to achieve a grade of C+ or higher in this course.

O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

Lab Competencies, Written Case Assignments, Quizzes, Exams, Written Reflections

P. DETAILED COURSE OUTLINE:

I. Mechanical Spinal Traction
   - A. Cervical Traction
   - B. Pelvic Traction

II. Principles of Electricity/Electrotherapy
   - A. Introduction to Electricity
   - B. Electrotherapeutic Parameters
   - C. Physiology of Electrotherapy

III. Electrotherapeutic Modalities
   - A. Principles of Pain Control
   - B. Indications, Contraindications, Precautions
   - C. TENS
   - D. Interferential Current
   - E. Neuromuscular Electrical Stimulation

F. High Volt Stimulation/Combo
G. Iontophoresis

IV. Other Systems
A. Endocrine/Metabolic
B. Gastrointestinal
C. Hematologic
D. Hepatic and biliary
E. Renal and urologic

V. Special Populations/Conditions
a. Chronic Pain
b. Cancer
c. Reproductive/Pregnancy
d. Autoimmune Disease
e. Aging
f. Hospice

Q. LABORATORY OUTLINE:

I. Spinal Traction
A. Cervical Traction
B. Pelvic Traction

II. Electrotherapy
A. Pain Control Modalities
B. Neuromuscular Electrical Stimulation
C. HVPC/US Combo

III. Advanced Therapeutic Techniques
A. Advanced Exercise
B. Advanced Soft Tissue and Joint Mobilization
C. Advanced Balance Training
D. Aquatic Therapy