



North Central State College

MASTER SYLLABUS

2025-2026

- A. Academic Division: Health Sciences
- B. Discipline: Physical Therapist Assistant
- C. Course Number and Title: PHTA2070 Pathophysiology and Interventions
- D. Assistant Dean: Heidi Kreglow, PT
- E. Credit Hours: 3
Lecture: 2 hours
Laboratory: 3 hours
- F. Prerequisites: PHTA2110, PHTA2115
Co-requisites: PHTA2090 (M), PHTA2170 (M)
- G. Last Course/Curriculum Revision Date: Fall 2023 Origin date: 12/22/2010
- H. Textbook(s) Title:

Pathophysiology for the Physical Therapist Assistant

- Author: Lescher
- Copyright Year: 2012
- Edition: First
- ISBN#: 9780803607866

PTA Examination Review & Study Guide

- Author: O'Sullivan, Siegelman, & McGinty
- Copyright Year: 2024
- Edition: 7th
- ISBN #: 9798989231416

- I. Workbook(s) and/or Lab Manual: None
- J. Course Description: This course examines diagnoses encountered by the physical therapist assistant during practice and will be presented in terms of their relationship to physical therapy. Topics will include but not be limited to cardiovascular conditions, respiratory diseases, infectious diseases, and geriatric disorders.
- K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
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:

Outcomes	Assessments – How it is met & When it is met
1. Identify and demonstrate Isolation technique	mini-test and lab practical exams
2. Explain the indications, contraindications, and precautions for interventions with cardiovascular, respiratory, endurance, wounds and geriatric conditions addressed.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
3. Identify components of prosthetic devices	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
4. Explain principles of prosthetic fitting	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
5. Identify cardiovascular, peripheral vascular diseases	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
6. Identify respiratory diseases and symptoms such as cyanosis and shortness of breath	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
7. Demonstrate application of therapeutic exercise interventions for gait for simulated patient using prosthesis.	mini-test and lab practical exams
8. Recognize, report proper use, fit and care of prosthetic devices and skin.	written final exam
9. Analyze gait for simulated patient using prosthesis.	written final exam
10. Explain normal changes of aging.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
11. Describe the classification of wounds.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
12. Identify and demonstrate interventions for cardiovascular, respiratory, wounds and geriatric conditions including aerobic conditioning and chest PT.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
13. Define medical interventions commonly utilized with cardiovascular, respiratory, wounds and geriatric conditions addressed.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
14. Describe the pathogenesis of the cardiovascular, respiratory, wounds and geriatric conditions addressed.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
15. Interpret prognosis of the cardiovascular, respiratory, and geriatric conditions addressed.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
16. Describe wound healing.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
17. Explain the subcategories of the cardiovascular, respiratory, and geriatric conditions addressed.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam

Outcomes	Assessments – How it is met & When it is met
18. Recognize the need for lifelong learning.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
19. Retain previous and concurrent applied physical therapy science and technical knowledge for further application and synthesis.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
20. Complete written assignment on task analysis as assigned by instructor.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
21. Integrate anatomy and physiology principles to the cardiovascular, respiratory, wounds and geriatric conditions addressed.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
22. Apply anatomy and physiology principles to the application of chest physical therapy interventions.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
23. Determine if chest physical therapy interventions should be performed based on knowledge of indications, precautions and contra-indications.	midterm exam, written assignment, quizzes during term, final exam; mini lab testing during term and final lab practical exam
24. Demonstrate technically correct chest PT interventions.	lab skills checklist
25. Interpret PT Plan of Care and patient subjective and objective data and use to initiate and implement prescribed procedures.	midterm exam, final exam; and midterm and final lab practical exams
26. Implement simulated patient treatments in a technically correct manner.	midterm and final lab practical exams
27. Synthesize information from patient scenarios to develop and carry out treatment activities which meet parameters of plan of care.	midterm exam, final exam; and midterm and final lab practical exams
28. Interpret patient response to treatment and adjust treatment accordingly.	midterm and final lab practical exams

M. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
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

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences.

Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at

<https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf>



North Central State College
SYLLABUS ADDENDUM

Academic Division:	Health Sciences	Discipline:	Physical Therapist Assistant
Course Coordinator:	Jennifer Lacey		
Course Number:	PHTA 2070	Course Title:	Pathophysiology
Semester / Session:	Fall 2025 / Session A	Start / End Date:	08/11/2025 thru 10/03/2025

Instructor Information

Name:	Jennifer Lacey	Credentials:	PTA, REHS, BSAS Allied Health
Phone Number:	419-755-5634	E-Mail Address:	jlacey@ncstatecollege.edu
Office Location:	HS-140	Office Hours:	Mon: 8:30-11:30 AM, Tues/Thurs 9:00-10:00 AM

I. Topical Timeline / Course Calendar (Subject to Change):

Weeks	Topics	Assignment	Due Date
1	Cardiovascular pathologies and cardiac rehab	-Read Chapter 3 & Therapy Ed pages 157-198	8/12
2	Respiratory diseases	-Read Chapter 4 & Therapy Ed pages 201-225 -Discussion Post	8/21
3	Exam review, Exam 1 GI, digestive and urinary pathologies	-Lecture Exam 1 -Read Chapter 12 & Therapy Ed ages 257-265, 246-250, 256-260 -Discussion Post	8/26 8/28
4	Endocrine system pathologies & Prosthetics	-Read Chapter 9 & Therapy Ed Pages 260-268, 418-425 -Discussion Post	9/4
5	Exam review Integumentary	-Exam 2 -Read Therapy Ed Pages 277-297 -Discussion Post	9/9 9/11
6	Acute Care/ICU	-Case Study 1 -Read Chapter 13 & Therapy Ed Pages 223-225 -Discussion Post	9/16 9/18
7	Pharmacology & Final Exam Review	-Case Study 2	9/25
8	Comprehensive Final Exam		9/30

II. Grading and Testing Guidelines:

This course includes both lecture and laboratory components:

1. Minimum passing requirements:
 - a. 77 % in each component (lecture and lab)
 - b. 80 % on all lab practicals and test components

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Semester / Session: Fall 2025/ Session A

Course Title: Pathophysiology
Start / End Date: 08/11/2025 thru 10/03/2025

- If less than 80% on 1st attempt, a 2nd attempt will be given with an automatic 6-point deduction, and a 3rd/final attempt given with a 12-point deduction.
- 2. Grade Weighting:
 - a. Lecture: 60% of the total course grade
 - b. Laboratory: 40% of the total course grade.
- 3. Final Grade Calculation:
 - a. Lecture and lab grades will be averages only if the student achieves at least 77% in each component.

Activity	Qty	Points	Percentage
Exams	2	100	40%
Assignments			15%
Lecture/Lab Participation			5%
Comprehensive Final Exam	1	200	40%

- 4. Progression Policy:
 - a. A grade below 77% in either component will result in failure to meet the requirements for continuation in the PTA program.

III. Examination Policy:

- 5. The reasons for which a student will be excused from taking an examination:
 - a. Hospitalization (with documented verification)
 - b. Death in the immediate family (with documented verification)
 - c. Personal illness or illness in immediate family - (doctor's excuse required).
- 6. A student who misses an examination for any reason is responsible for:
 - a. Contacting/notifying the instructor immediately
 - b. Make up per college policy/at instructor discretion at earliest date available
- 7. No makeup opportunity will be given for absences of unscheduled quizzes upon:
 - a. Lack of notifying instructor
 - b. Lack of coordination with instructor to schedule make up quiz

IV. Class Attendance and Homework Make-Up Policy:

- 1. Class attendance is necessary to acquire the knowledge required to:
 - a. Successfully complete lab skills check offs/tests with 80% or higher.
 - b. Successfully pass lecture quizzes/tests and assess weekly assignments
- 2. Students are responsible for:
 - a. Weekly studying, assigned weekly readings, completion of weekly assignments, and regular attendance in both lecture and lab.
 - b. Submitting assignments according to established due dates in weekly lecture and lab Canvas modules.
 - Late assignments will receive a 10% grade reduction for every day assignment is late unless other arrangements have been made with the instructor.
 - Technical malfunctions will not be accepted as an automatic excuse for late work.
 - c. Promptly notifying the instructor upon recognizing any difficulty in meeting the course requirements or maintaining a passing grade.

V. Classroom Expectations:

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1. Students are expected to attend all classes and labs, engage respectfully, and maintain professional behavior. Disruptive conduct may result in dismissal from class and a required meeting with the program director to review expectations.
2. Student's should review weekly lecture and lab Canvas modules for required readings, assignments, supplemental materials, preparation guidelines, quizzes, skill checks, and lab testing information.
3. Students are expected to allocate sufficient time outside of class to review course materials, complete assignments, and prepare for assessments. A minimum of 2–4 hours of study per week for each credit hour is recommended to support mastery of course content and skill development.