



North Central State College

MASTER SYLLABUS

2026-2027

- A. Academic Division: Health Sciences
- B. Discipline: Physical Therapist Assistant
- C. Course Number and Title: PHTA2070 Pathophysiology and Interventions
- D. Assistant Dean: Dr. Jason Tucker, Ph.D.
- 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	Average
67–69	D+	1.33	Below Average
63–66	D	1.00	Below Average
60–62	D-	0.67	Below Average
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 2070/2070L	Course Title:	Pathophysiology
Semester / Session:	Fall 2026 / Session A	Start / End Date:	08/17/2026 – 10/09/2026

Instructor Information

Name:	Jennifer Lacey	Credentials:	PTA, REHS, BSAS
Phone Number:	419-755-5634	E-Mail Address:	jlacey@ncstatecollege.edu
Office Location:	HS-140	Office Hours:	Tues/Thurs: 8:15-9:00 am & 1:30-3:00 pm, Fri: 8:00-8:30

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	8/20
2	Respiratory diseases	-Read Chapter 4 & Therapy Ed pages 201-225 -Discussion Post -Applied assignment (Lab)	8/27
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 -Applied Assignment (Lab)	9/01 9/03
4	Endocrine system pathologies & Prosthetics	-Read Chapter 9 & Therapy Ed Pages 260-268, 418-425 -Discussion Post -Applied Assignment (Lab)	9/10
5	Exam review Integumentary	-Exam 2 -Read Therapy Ed Pages 277-297 -Discussion Post -Applied Assignment (Lab)	9/15 9/17
6	Acute Care/ICU	-Case Study 1 (Lab) -Read Chapter 13 & Therapy Ed Pages 223-225 -Discussion Post -Applied Assignment (Lab)	9/22 9/24
7	Pharmacology & Final Exam Review	-Case Study 2 (Lab)	10/1
8	Comprehensive Final Exam		10/8

II. Grading and Testing Guidelines:

This course includes both lecture and laboratory components:

Course Number: PHTA 2070
Semester / Session: Fall 2026/ Session A

Course Title: Pathophysiology
Start / End Date: 08/17/2026 thru 10/09/2026

1. Minimum passing requirements:
 - a. 77 % in each component (lecture and lab)
 - b. 80 % on all lab practicals and test components
 - Retake attempts and associated grade adjustments for lab practicals and test components are governed by the PTA Program Student Handbook. Please refer to the Student Handbook for this policy.
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 averaged only if the student achieves at least 77% in each component.

Activity	Qty	Points	Percentage
Exams	2	100	30%
Case Studies/Applied Assignments			20%
Discussion Posts			10%
Lecture/Lab Participation			5%
Comprehensive Final Exam	1	200	35%

4. Progression Policy:
 - a. A grade below 77% in either component means you will not meet the requirements to continue in the PTA program, so please reach out to your instructor right away if you're struggling.

III. Examination Policy:

1. You may be excused from taking an exam for the following reasons:
 - 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).
2. If you miss an exam for any reason, you are responsible for:
 - a. Contacting/notifying your instructor immediately
 - b. Making up the exam per college policy, at the instructor's discretion, at the earliest available date
3. You will not be given a makeup opportunity for a missed unscheduled quiz if you:
 - a. Do not notify your instructor.
 - b. Do not coordinate with your instructor to schedule a make-up quiz.

IV. Class Attendance and Homework Make-Up Policy:

1. Attending class and lab regularly will help you:
 - a. Successfully complete lab skills checkoffs/tests with 80% or higher
 - b. Successfully pass lecture quizzes/tests and complete weekly assignments
2. You are responsible for:
 - a. Weekly studying, completing assigned readings, finishing weekly assignments, and attending both lecture and lab regularly.
 - b. Submitting assignments by the due dates posted in your weekly lecture and lab Canvas modules
 - Late assignments will lose an additional 10% for each day they are late (10% on day 1, 20% on day 2, 30% on day 3, and so on), up to a maximum penalty of 50%. Assignments submitted more than 5 days after the due date will receive a grade of 0, unless other arrangements have been made with the instructor.
 - Technical malfunctions will not be accepted as an automatic excuse for late work.

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- c. Promptly notify your instructor as soon as you recognize any difficulty meeting the course requirements or maintaining a passing grade.

V. Classroom Expectations:

1. You 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. Be sure to review your weekly lecture and lab Canvas modules for required readings, applied assignments, supplemental materials, preparation guidelines, and testing information.
3. Plan to set aside enough 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 help you master course content and build your skills.

VI. Instructor Communication and Grading Turnaround:

1. Grading Turnaround:
 - a. Assignments are typically graded within one week of the due date.
 - b. If you submit an assignment early, it will not be graded until the official due date, so don't worry if you don't see a grade right away.
2. Response Time:
 - a. Phone calls, emails, and Canvas messages will be answered within 1–2 business days.
 - b. Canvas message or email is the best way to reach me. Calling my office during posted office hours is also welcome.
3. Office Hours:
 - a. Use office hours to ask questions about course content, get feedback on assignments, talk through your grades or progress, or get extra help with lab skills. You're encouraged to stop by rather than wait until right before something is due.

VII. Academic Integrity:

1. You are expected to uphold the College's Academic Integrity Policy, which covers plagiarism, cheating, fabrication, and the acceptable use of AI tools. Please review the full [Academic Integrity Policy \(3357:13-14-65\)](#).
2. Course-Specific AI Statement: In this course, AI tools (such as ChatGPT) may be used to brainstorm ideas, explore concepts, or help organize your thinking. AI may not be used to complete assignments for you. Submitting AI-generated work as your own is considered a violation of academic integrity. If you are unsure whether a specific use of AI is appropriate for an assignment, please ask your instructor before submitting.