



North Central State College
MASTER SYLLABUS
2019-2020

- A. Academic Division: Health Sciences
- B. Discipline: Physical Therapist Assistant
- C. Course Number and Title: PHTA2070 Pathophysiology and Interventions
- 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.
- Phone Number: Click here to enter text.
- E-Mail Address: Click here to enter text.

- E. Credit Hours: 3
Lecture: 2 hours
Laboratory: 3 hours
- F. Prerequisites: PHTA2110, PHTA2115
Co-requisites: PHTA2090 (M), PHTA2170 (M)
- G. Syllabus Effective Date: Fall, 2019
- H. Textbook(s) Title:

Pathology for the Physical Therapist Assistant

- Author: Lescher
- Copyright Year: 2012
- Edition: First
- ISBN#: 978-0-8036-0786-6

- 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	

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

Outcomes	Assessments – How it is met & When it is met
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
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. Topical Timeline (Subject to Change):

Week 1: Intro and Infectious Disease

Week 2: Cardiovascular and Respiratory Diagnoses

a. Definition

b. Description, Indications, Contraindications, Precautions, and Intervention for the cardiovascular and respiratory conditions of:

1) Buerger's Disease

2) Heart Surgery

3) Myocardial Infarction

Week 3: Chronic Obstructive Pulmonary Disease

Week 4: Diabetes

Week 5: Amputations

Week 6: Arteriosclerotic Heart Disease

Week 7: Raynaud's Disease & Tuberculosis

Week 8: Midterm Exam

Week 9: Edema & Burns

Week 10 Geriatric Diagnoses

a. Definition

- b. Description, Indications, Contraindications, Precautions, and Intervention for the geriatric conditions of:

Week 11: Organic Brain Syndrome & Alzheimer’s Disease

Week 12: Depression & Senses

Week 13: Osteoporosis

Week 14: Senile Dementia & Emotional Illnesses

Week 15: Oncology

Week 16: Final Exam

N. Course Assignments:

Evaluation Methods:

1. Written Exams:
 1. One midterm exam worth 20% of course grade.
 2. One written assignments and quizzes worth 10% of course grade.
 3. One comprehensive final examination which is worth 30% of course grade.
2. Lab Practical Exams:
 - a. Midterm lab practical exam 15% of course grade
 - b. Comprehensive Final Lab Practical Exam: 15% of course grade
3. Lab mini testing: total of 10% of course grade
 - a. cardiac exercise
 - b. geriatric conditions exercise
 - c. wound care
 - d. exercise progression for patient with lower limb prosthesis
4. Lab skills checklists (Pass or Re-do)
 - a. Chest PT

O. 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

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.

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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.

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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.

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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.

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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.](#)