



PTHA 1321 PATHOPHYSIOLOGY FOR THE PHYSICAL THERAPIST ASST.  
 (Hybrid)  
**Course Syllabus: Fall 2020**

*“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”*

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	By appointment		By appointment	By appointment		By appointment

***This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.***

*Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.*

**Course Description: 3 Credit Hours.** Study of the pathogenesis, prognosis, and therapeutic management of diseases/ conditions commonly encountered in physical therapy.

**Prerequisite(s):** Admission to the program

**Student Learning Outcomes:**

GENERAL COURSE LEARNING OUTCOMES

Identify and explain the pathogenesis of selected diseases/conditions relevant to physical therapy. Determine aspects of Pathophysiology that affect physical therapy treatment; describe the current response to acute physiological change in patients' conditions and identify pertinent pharmacological information and its impact on patient care.

GENERAL EXPECTATIONS

1. Attend all classes and arrive on time.
2. Project professional image (dress/hygiene) on field trips and field experiences
3. Discuss potential implications on non-attendance and tardiness in the classroom
4. Demonstrate acceptance of faculty feedback on written exams, assignments and research
5. Demonstrate professional behavior in interactions with instructors/students during classroom activities

SPECIFIC OBJECTIVES

On a written exam with 75% proficiency, the student will be able to:

1. Define pathology and related terminology
2. Identify and explain the pathogenesis of selected diseases and conditions relevant to physical therapy.
3. Describe how disease affects homeostasis.
4. Identify the major classifications of human diseases.

5. Explain the importance of patient history in the treatment of diseases.
6. Differentiate the Models of Disability.
7. Communicate an understanding of the plan of care developed by the PT to achieve short term and long-term goal and intended outcomes.
8. Describe the purpose of inflammation.
9. List the main signs of acute and chronic inflammation and describe the physiologic mechanisms involved in their production.
10. Differentiate between acute and chronic inflammation.
11. Contrast benign and malignant tumors.
12. List the warning signs of cancer.
13. Describe the local and systemic effects of cancer.
14. List common risk factors for cancer.
15. Identify treatment related to various forms of cancer.
16. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
17. Differentiate various pathologies related to age, gender, race, and ethnicity.
18. Describe how responses/results to common pathologic conditions may vary with age, gender, and race.
19. Identify selected pathologies for which racial or ethnic groups may be predisposed.
20. Describe pathologies related to the immune system.
21. Describe the function and anatomical components of the immune system.
22. Identify sign and symptoms, etiology, diagnosis, prognosis, and prevention related to the immune system.
23. Identify treatment related to various conditions of the immune system.
24. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
25. Describe pathologies related to the integumentary system.
26. Describe the function and anatomical components of the integumentary system.
27. Identify sign and symptoms, etiology, diagnosis, prognosis, and prevention related to the integumentary system.
28. Identify treatment related to various conditions of the integumentary system.
29. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
30. Describe pathologies related to the endocrine and Metabolic systems.
31. Describe the function and anatomical components of the endocrine and metabolic systems.
32. Identify sign and symptoms, etiology, diagnosis, prognosis, and prevention related to the endocrine and metabolic systems.
33. Identify treatment related to various conditions of the endocrine and metabolic systems.
34. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
35. Describe pathologies related to the respiratory system.
36. Describe the function and anatomical components of the respiratory system.
37. Identify sign and symptoms, etiology, diagnosis, prognosis, and prevention related to the respiratory system.
38. Identify treatment related to various conditions of the respiratory system.
39. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
40. Describe pathologies related to the musculoskeletal system.
41. Describe the function and anatomical components of the musculoskeletal system.
42. Identify sign and symptoms, etiology, diagnosis, prognosis, and prevention related to the musculoskeletal system.
43. Identify treatment related to various conditions of the musculoskeletal system.
44. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
45. Identify signs and symptoms, etiology, diagnosis, prognosis, and prevention related to the cardiovascular system.
46. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
47. Identify signs and symptoms, etiology, diagnosis, prognosis, and prevention related to the hematologic

- system.
48. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
  49. Identify signs and symptoms, etiology, diagnosis, prognosis, and prevention related to the hepatic, pancreatic, and biliary systems.
  50. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
  51. Identify signs and symptoms, etiology, diagnosis, prognosis, and prevention related to the gastrointestinal system.
  52. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
  53. Identify signs and symptoms, etiology, diagnosis, prognosis, and prevention related to the renal and urologic systems.
  54. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
  55. Identify signs and symptoms, etiology, diagnosis, prognosis, and prevention related to the male and female reproductive systems.
  56. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
  57. Describe pathologies resulting from congenital and childhood diseases and conditions.
  58. Describe the function and anatomical components of congenital and childhood diseases and conditions.
  59. Identify sign and symptoms, etiology, diagnosis, prognosis, and prevention related to congenital and childhood diseases.
  60. Identify treatment related to various childhood diseases.
  61. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT
  62. Identify signs and symptoms, etiology, diagnosis, prognosis, and prevention related to the bone, joint, and soft tissue diseases and disorders.
  63. Recognize when treatment should not be provided due to changes in the patient's status and reports this to the supervising PT.
  64. Describe the various problems affecting multiple systems of the body
  65. Describe and recognize infectious diseases and the etiology of each disease.
  66. Describe lab tests and values and predict the impact of various results on physical therapy.

**Evaluation/Grading Policy:**

Unit Exams (4) . . . . .	70%
Research Paper . . . . .	25%
Participation/Assignments/Projects.....	5%

**GRADING**

- A - 92-100
- B - 83-91
- C - 75-82
- D - 66-74
- F - 65 and below

A grade below 75 constitutes unsatisfactory understanding of the course.

**Required Instructional Materials:** *Pathology for the Physical Therapist Assistant*, 2<sup>nd</sup> ed., Goodman et.al.

**Publisher:** Saunders/Elsevier

**ISBN Number:** 978-0-323-39549-6

**Optional Instructional Materials:** None

**Minimum Technology Requirements:**

- Daily high speed internet access
- Microsoft Word
- Power point
- Portable storage device such as a Jump drive/Thumb drive

**Required Computer Literacy Skills:**

- Word Processing skills
- Email skills

**Communications:**

**EMAIL:** Please check your NTCC email EVERYDAY. Email is the official form of communication used here at NTCC. All emailed questions to the instructor will be responded to within 24 hours, but usually within a few hours when possible. I will normally respond to you at least acknowledging that I received your inquiry and will answer as soon as possible.

**TEXT MESSAGE NOTIFICATIONS:** You are required to sign up for the text message notifications via Remind. This will enable you to receive important class announcements and reminders from me via text message so that you will not miss out on any assignment changes or important updates. Please continue to check your NTCC email daily. If you do not own a cell phone, you can receive these same reminders through your email... the instructions are also in the PDF instruction sheet you received at orientation.

**ANNOUNCEMENTS:** These can be found in Blackboard under the course link on your Bb homepage. Please make sure you are reading any announcements thoroughly when they are posted there.

**Institutional/Course Policy:**

ATTENDANCE AND ABSENTEEISM

**TARDIES AND ABSENCES ARE STRONGLY DISCOURAGED**

The PTA faculty believes that the habits and work patterns established in school will be carried over to the work setting. Therefore, every effort should be made to establish patterns of good attendance and promptness. This applies not only to the technical courses but also the general education and support courses. Student attendance is addressed under student responsibilities in the school catalog. In addition, student attendance and participation is also addressed utilizing the Professionalism Development Rubric. This document provides the student a means to identify and track any area(s) of deficiency regarding professional behaviors; and, to improve in the area(s). For the PTA Program, the following guidelines concerning attendance will be enforced:

1. For every class period missed, one (1) absence is accumulated.
2. A student more than five minutes late or leaving class early with or without instructor permission is considered tardy.
3. Three (3) tardies constitute one (1) absence.
4. After absences (excused or unexcused) in any 4 class periods per semester, the student will be placed on probation. Stipulations of probation will be developed based on the student's history and circumstances surrounding the absences; and conditions for dismissal in the event of a future absence will be included in the probationary contract.

5. Make-up work is required for all absences in order to ensure that the student acquires information and skills presented during his/her absence (see Make-up work section). It is the student's responsibility to meet with instructor(s) on the first day back to schedule make-up work and/or lab check-off.
6. Students must notify (voicemail or e-mail) the PTA office in advance whenever excessive (>5 minutes) tardiness or absence is unavoidable.  
**Notification of the student's absence by classmates is not acceptable.**

\*Note: An absence will be excused by provision of a note written and signed by a medical professional and by uncontrollable or unavoidable extenuating circumstances as documented below. All other absences/tardies will be considered unexcused.

Further explanation of **excused absences** is as follows:

- "A student's serious illness" shall mean a condition such as pneumonia, surgery, hospital confinement, or valid documented medical reason. A physician's documentation verifying illness must be provided.
- "Death in the immediate family" shall be interpreted to mean mother, father, mother-in-law, father-in-law, spouse, child, brother, sister, grandparents, or significant other. Documentation must be provided.
- "Statutory government responsibilities" refer to such matters as jury duty or subpoena for court appearance. Documentation must be provided.
- Inclement weather – see policy below.

## **MAKE-UP WORK**

### **Due to Absence:**

Each student is responsible for all material and techniques presented in class and labs. If a class is missed, the student is responsible for obtaining from a classmate, information/ notes, handouts, lab work, covered during that absence. It is the **student's responsibility** to schedule a time with the instructor to complete lab check-offs for content missed. Lab check-offs must be made up within one week of the date absent. The student's grade will be lowered **10 points** on the corresponding lab practical for each lab session and check-off not made up within the allocated timeframe. If the student has not "checked-off", any missed lab material/techniques; they will **NOT** be allowed to take the corresponding lab practical and a grade of "0" will be assigned. If a test, lab practical, or special assignment is missed due to an **excused** absence, it is the student's responsibility to consult the instructor the next time the student is on campus about making up a test or turning in an assignment. The student must make-up the missed test or lab practical within one week from the date missed providing **appropriate notification of absence was made prior** to the original test time. Lack of notification prior to exam time will result in a grade of "0" for the missed exam; **notifying classmates to relay the student's absence is not acceptable!** Assignments due on the date of the excused absence must be turned in the next time the student is on campus; otherwise, the student will receive a "0" for the work missed.

An **unexcused** absence will result in a "0" on a test, lab practical, or special assignment missed; the student will not have the opportunity to make up the work missed work.

One make-up test and/or lab practical due to excused absence, per class, per semester is allowable without penalty. **It is the student's responsibility to set up a time with the instructor to make up the test or lab practical missed.**

## INCLEMENT WEATHER/DESIGNATED HOLIDAYS

Students scheduled for class during inclement weather conditions in which NTCC designates travel hazardous and closes the campus, will not be expected to attend class that day. However, in the event that NTCC remains open for classes, but the local school district in which the student resides closes and the student deems travel as hazardous, the student will not be expected to attend class that day. All class and lab work missed in this situation must be made up. If NTCC is open and the local school district in which the student resides remains open, the student must attend class that day. If the student does not attend class in the event that NTCC remains open, both the course instructor and program director must be notified in advance as with any other absence. The absence will be unexcused.

Students will be excused from class for the major designated holidays which are as follows: New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day.

## POLICY ON DISHONESTY

It is the responsibility of students and faculty to help maintain scholastic integrity at the College by refusing to participate in or tolerate scholastic dishonesty. **Plagiarism** and other **forms of dishonesty** undermine the very purpose of the college and diminish the value of an education. Specific sanctions for academic dishonesty are outlined in the Northeast Texas Community College Student Handbook and in this manual. Personal and professional ethics are inherent in the field of physical therapy therefore; the highest standards of honesty and integrity must be adhered to. This Honor Code, in its simplest form means that you will neither give nor receive any unauthorized assistance from any person, paper, or object on any examination, lab practical, paper, or project. This includes talking about lab practical exams, regular exam questions, looking at copies of old tests from previous students, copying or allowing anyone to copy off of your test or assignment, and discussing any aspect of an exam or practical with a student who has not yet taken the test and/or practical (this includes the State Board exam).

With regards to research papers, in-services, group projects, etc. the use of another person's words or ideas must be cited and credit given to the source(s). Examples of plagiarism include:

- The inclusion of another person's exact words in a paper or assignment without placing quotation marks around the words to indicate an exact quote, *even if the source is cited*;
- Using **several** consecutive sentences written by another person, changing the words somewhat to keep the passage from being an exact quote, *even if the source is cited*;
- Presenting someone else's ideas without citing that person as the original thinker;
- Submitting a paper written in part or in whole by another person;
- Any other act intended to circumvent the process of performing and presenting original academic research in completion of a course assignment.

Violations of any portion of this policy will be brought to the attention of the student by the instructor. If there is suspicion of wrongdoing without corroborating evidence, the matter will be discussed with the student and a written warning/contract will be issued if warranted. If there is clear evidence that a violation has taken place, the student will receive a grade of "0" for that test/assignment in question; and the instructor will impose a sanction ranging from a written warning to dismissal from the course with a failing grade.

If the student does not feel that the issue is satisfactorily resolved, the student should contact the PTA Program Director to discuss the matter. If the matter cannot be resolved at that level, the student may contact the Dean of Allied Health, followed by the Executive Vice President for Instruction. If the issue is not satisfactorily resolved at the end of this process, the student may initiate a formal grievance procedure outlined in the NTCC Student Handbook and in this manual.

## CLASS PREPAREDNESS

Students are expected to complete all reading assignments, as outlined in the course schedule or assigned by the instructor, prior to class time. It is the responsibility of the student to turn in assignments on time. Assignments are due at the beginning of the class period. Late assignments received by the next class period will result in a maximum grade of 75. If assignment is not turned in by the next class period the student will receive a grade of "0" for that assignment.

Students are expected to participate in and perform a variety of physical therapy procedures on each other in lab and the classroom for educational purposes; after practicing each laboratory skill, the student will be asked to present a return demonstration to the instructor at some point prior to the conclusion of the lab.

## POLICY ON CIVILITY AND CELL PHONES IN THE CLASSROOM AND LABORATORY

Students are expected to assist in maintaining a classroom environment that is conducive to learning. If a student brings a cell phone to class/ lab, make sure it is turned off or on silent mode. The student will not be allowed to answer his/her cell phone during class/lab. If the student is expecting a very important call, they are to notify the instructor prior to class regarding the nature of the situation. Cell phones must be put away, out of sight, during tests. Inappropriate or distracting classroom behavior is prohibited in order to assure that everyone has opportunity to gain from time spent in class. Should a disruptive classroom incident occur, the faculty member in charge may remove the student on either a temporary or permanent basis. Students have the right to appeal through appropriate channels.

### **Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements**

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

### **NTCC Academic Honesty/Ethics Statement:**

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

### **ADA Statement:**

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

**Family Educational Rights and Privacy Act (FERPA):**

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

**Tentative Course Timeline (\*note\* instructor reserves the right to make adjustments to this timeline at any point in the term):**

**Exam I      October 12, 2020**  
**Exam II     October 22, 2020**  
**Exam III    November 4, 2020**  
**Exam IV     December 3, 2020**

**Research Paper December 9, 2020**