



# Essentials Of Data Collection PTHA 2301

## Course Syllabus: Spring 2019

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	9:00-12:00	1:00-3:00	9:00-12:00	1:00-3:00	none	none

*The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.*

**Catalog Course Description (include prerequisites):** Data collection techniques used to prepare the physical therapist assistant to assist physical therapy management. Successful completion of PTHA courses in curriculum.

### Required Textbook(s):

1. Muscle and Sensory Testing, Reese, 3rd Ed, Elsevier Saunders, 2011.
2. Joint Range of Motion and Muscle Length Testing, Reese and Bandy, 3rd Edition, Elsevier, 2017.

**Publisher:** Elsevier

**ISBN Number:** 9781437716115; 9780323249829

**Recommended Reading(s):** See Course Schedule

### Student Learning Outcomes:

The students will perform data collection techniques specific to physical therapy (1); utilize data collected for the purpose of monitoring patient/client response to enhance physical therapy management (2); and utilize relevant communication techniques (3).

### GENERAL OBJECTIVES

1. Discuss potential implications of in-attendance and tardiness in the classroom/lab setting.
2. Behave in a professional manner appropriate to the clinical setting during lab practicals.
3. Demonstrate acceptance and application of faculty feedback on written, oral and practical exams.
4. Describe errors and discuss correct responses upon completion of a practical exam or skill check.
5. Seek opportunities to promote access to or awareness of PT.

## **SPECIFIC OBJECTIVES**

*On a written exam and/or lab partner through lab check-off with a lab partner or practical examination with simulated patients as listed below with 75% proficiency, the student will be able to:*

### **Communication:**

1. Demonstrate effective communication skills including introduction of self as a student, giving understandable instructions, and providing adequate feedback during simulated patient scenarios.
2. Recognize the need to communicate any change of patient status to supervising PT.

### **Manual Muscle Testing:**

3. Identify factors that add to the accuracy of a manual muscle test.
4. Identify, define, and differentiate between muscle testing grades both numerically and by name.
5. Describe the correct manual muscle testing procedure.
6. Identify the correct patient position, stabilization, action, and potential substitutions for all major muscles of the body.
7. Apply the principles of positioning for manual muscle testing to determine alternate positions based on patient limitations.
8. Demonstrate entry-level skill in performing a manual muscle test on all major muscle groups.
9. Apply the manual muscle test grading system to assign the correct muscle grade for a muscle tested within one-half grade.

### **Goniometry:**

10. Identify and record, using various methods, measurements of goniometry.
11. Identify factors which may affect reliability and accuracy of goniometric measurements.
12. Describe the sequence of goniometric measurement.
13. Describe the patient position, goniometric/inclinometer landmarks, stabilization, potential substitution and normal ROM for all major joints of the body.
14. Differentiates between normal and abnormal length of muscle in terms of goniometric measurement.
15. Demonstrate the ability to visualize and approximate various angles of joint motion.
16. Demonstrate entry-level skill goniometry measuring the joints of the upper extremities, lower extremities, and spine.
17. Demonstrate entry-level skill in using an inclinometer and/or tape measure for spine testing.

### **Special Orthopedic Tests:**

18. Identify the name and purpose of special orthopedic tests for each major joint of the body.
19. Describe how to perform each of the special orthopedic tests.
20. Differentiates between normal and abnormal muscle length in terms of specific special orthopedic tests.
21. Demonstrate beginning skills in performance of selected special orthopedic tests.

### **Gait Analysis:**

22. Define the terms used to describe normal gait.
23. Compare the variables that are assessed in each of the following types of gait analysis: kinematics qualitative analysis, kinematics quantitative analysis, and kinetic analysis.
24. Identify the joint positions and muscle actions of the lower extremity and trunk during normal gait.
25. Describe and give examples of the common deviations found in gait.
26. Using videotaped gait patterns, analyze normal and abnormal gait.

### **Cranial Nerve Testing:**

27. Identify the names of the twelve pair of cranial nerves.
28. Describe testing for each of the cranial nerves.

### **Body Fat Percentage Testing:**

29. Identify and describe the various methods of determining body fat composition.
30. Calculate body mass index.

### **Sensation Testing:**

31. Identify the various types of sensations.
32. Describe specifically how to test for each of the various types of sensations.
33. Perform a screening of each of the various sensations identifying any deviations from normal.

### **Deep Tendon Reflex Testing:**

34. Rate a "normal" DTR response and identify the appropriate spinal cord level for the major DTR's of the body.

### **Orientation:**

35. Recognize normal versus impaired cognition/mentation in a case scenario.

### **Comprehensive:**

36. Given a patient case scenario and physical therapy evaluation, be able to accurately collect data with MMT, ROM, sensation testing, or orthopedic tests to determine treatment progression and communicate this information to the supervising physical therapist as appropriate.

### **Exemplary Educational Objectives:**

N/A

### **SCANS Skills:**

SCANS addressed as follows: Resources (allocates time); Information (acquires and evaluated information, organizes and maintains information, interprets and communicates information); Interpersonal (participates as a team member, serves clients/customers); Basic Skills (reading, writing, arithmetic, listening, speaking); Thinking Skills (problem solving, seeing things in the mind's eye, knowing how to learn, reasoning); Personal Qualities (responsibility, self-esteem, sociability, self-management, integrity/honesty).

### **Lectures & Discussions:**

#### METHODS OF PRESENTATION

1. Lecture utilizing PowerPoint Presentations outlines
2. Assigned Readings
3. Classroom Participation
4. Laboratory Demonstrations and Practice
5. Guest Lectures
6. Multi-Media

#### OUTLINE OF CONTENT

1. Cranial Nerve Testing
2. Other Testing – Body Fat Composition
3. Deep Tendon Reflex Testing
4. Sensation Testing
5. Introduction of Manual Muscle Testing and Goniometry
6. Shoulder Tests MMT, and Goniometry
7. Elbow and Forearm Tests, MMT, and Goniometry
8. Wrist and Hand Test, MMT, and Goniometry
9. Hip Tests, MMT, and Goniometry
10. Knee Tests, MMT, Goniometry
11. Ankle and Foot Tests, MMT, Goniometry
12. Gait Analysis and Deviations
13. Spine Tests, MMT, Goniometry/Inclinometry

## Evaluation/Grading Policy:

### 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 content and/pr unsatisfactory performance of skills.

### Tests/Exams:

#### EVALUATION

Unit Tests (3)	35 %
Lab Practical Examinations (2)	20%
Pop Quizzes/Assignments/lab check sheet	5%
Final Comprehensive Practical	20%
Final comprehensive exam	20%

### Assignments:

See Tests/Exams section above

### Other Course Requirements:

#### Lecture and Lab Schedule Tentative

Module I	Body Fat Percentage Testing/Cranial Nerve Testing Deep Tendon Reflex Testing Sensation Testing Sensation Check-offs Intro to MMT/Goniometry Shoulder Tests Elbow/forearm Tests Wrist/hand Tests <b>EXAM I/PRACTICAL I</b>
Module II	Hip Tests Knee Tests Ankle/foot Tests <b>EXAM II/PRACTICAL II</b>

## Module III

Normal Gait  
Gait Analysis  
Spine Tests

### **EXAM III**

**COMPREHENSIVE LAB PRACTICAL** (Data  
Collections, Therapeutic Exercise, Physical Agents)

### **COMPREHENSIVE WRITTEN FINAL**

## **Student Responsibilities/Expectations:**

### 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.

This participation is vital to the learning process. The student's consent is needed to participate in these procedures.

### POLICY ON CIVILITY AND CELL PHONE USE IN THE CLASSROOM

Students are expected to assist in maintaining a classroom environment that is conducive to learning. Inappropriate or distracting classroom behavior is prohibited in order to assure that everyone has opportunity to gain from time spent in class. Inappropriate or distracting language is also prohibited. Should a disruptive classroom incident occur, the faculty member in charge may remove a student. The student has the right to appeal through appropriate channels.

Use of cell phones is **prohibited** in class/lab. Phones are **NOT** allowed and should be kept out of sight during class time. If the student is observed using the phone (texting, calling) during class he/she will be asked to turn the phone off and surrender it to the instructor. If the student desires to use the phone to access course materials, the student is asked to inform the instructor prior to class for approval. If a student's cell phone rings in class, the student will be required to turn off the phone immediately. If a student is expecting a very important call, he/she is to notify the instructor prior to class regarding the nature of the situation. The student will be asked to keep the phone silent, and upon receiving the call he/she must step out of the room to answer.

## 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 (5) 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.**

### Remediation

In the event a student scores less than a 75 on a lab practical exam, the student **may be assigned remediation** for the previously failed practical components (based on specified course lab practical rubric). Failure to complete remediation satisfactorily (demonstration of proficiency) will result in failure of the course.

### Due to failure of safety criteria on lab practicals

On lab practical exams several areas on each exam are considered to be patient safety criteria or "critical elements"; if a student **fails a patient safety element/criteria, he/she will be required to re-do the lab practical**. The re-do (2<sup>nd</sup>) lab practical cannot be taken on the same day as the failed lab practical. It is the **student's responsibility** to schedule a time with the instructor to re-do the practical and must be scheduled and completed during the instructor's office hours or other established time within the next week. The highest grade that a student can receive on the "re-do" is 75. If a student fails the safety criteria on the lab practical "re-do", the student is given a grade of "0" and automatically fails the course. Only one lab re-do per course, per semester, will be permitted for failure of safety criteria.



**NTCC Academic Honesty Statement:**

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 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 expulsion 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 Vice President for Instruction and Student Development. 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.

## **Academic Ethics**

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

## **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 Shannin Garrett, Academic Advisor/Coordinator of Special Populations located in the College Connection. She can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website - Special Populations](#)

## **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.

## **Other Course Policies:**

In addition to upholding the NTCC Academic Honesty Policy, students in the PTA program are required to follow the honor code provided in the program policy and procedure manual. The program honor code states that you will neither give nor receive any unauthorized assistance from any person, paper, or object on any test, paper, examination, 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 with a student who has not yet taken the test. When using another person's words or ideas, credit should be given to the source. Failure to abide by this policy may result in expulsion from the PTA Program.

Violations 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

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