



# Essentials Of Data Collection PTHA 2301

## Course Syllabus: Spring 2017

“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. Admission to the program; Anatomy and Physiology I; Functional Anatomy; Anatomy and Physiology I

### 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, 2<sup>nd</sup> Ed., Elsevier Saunders, 2010.

**Publisher:** Elsevier  
**ISBN Number:** 9781437716115; 9781416058847

**Recommended Reading(s):** None

### Student Learning Outcomes:

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

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

## 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.

If you bring your cell phone to class or lab, it must be turned off or silent. Do not answer your phone in the classroom or lab room. If you are expecting a very important call, please notify the instructor before class regarding the nature of the emergency situation. Keep the phone on silent, and if you receive the call, please step out of the room quietly.

### **NTCC Academic Honesty Statement:**

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

### **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 arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

**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 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.