

**The University of Texas at El Paso
College of Health Sciences
Doctor of Physical Therapy Program**

PT 6206

Tests and Measures

Fall 2024

COURSE SYLLABUS

Credit Hours: 2

Contact Hours: 90 hours – Lecture: 0 hours; Lab: 90 hours; Clinic: 0 hours

Schedule:

Lecture: All students Mondays	12:45-1:45 pm
Lab 1: Mondays Lab B	2:15-4:45 pm
Tuesdays Lab A	12:30-3:00 pm
Lab 2: Wednesdays Lab A	1:00-3:30 pm
Thursdays Lab B	12:30-3:00 pm

Changes to the schedule in Red

Room Monday 120

Coordinator/Instructors:

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Course Description: This laboratory course is an introduction to the physical therapy examination and clinical reasoning process. Focus is on developing knowledge and skills to select and administer evidence-based tests and measures commonly used in physical therapy practice.

Course Prerequisites for DPT Students: The UTEP DPT Program curriculum is a lock-step curriculum. Therefore, students must pass all courses in the prior semester of the DPT Program in order to enroll in courses in the subsequent semester. Faculty may consider exceptions for PT 6116 PT Capstone Project I and PT 6117 PT Capstone Project II.

Course Objectives:

1. Define the components of the Patient/Client Management Model, ICF Model, and UTEP's Clinical Reasoning Model. (7D21) [Knowledge]
2. Use the Guide to PT Practice vocabulary with respect to the Patient/Client Management Model and ICF Model. (7D21) [Application]
3. Obtain a thorough history from a simulated patient. (7D17) [Application]
4. Perform a complete systems review with a simulated patient. (7D18) [Application]
5. Demonstrate the ability to accurately assess (7D19...) [Application]
 - a) anthropometric characteristics (7D19 b)
 - b) balance (fall risk only) (7D19 d)
 - c) circulation (7D19 e)
 - d) self-care (7D19 f)
 - e) peripheral nerve integrity (7D19 g)
 - f) mental functions (7D19 l)
 - g) mobility (7D19 m)
 - h) muscle performance, including strength, power, endurance, and length (7D19 o)
 - i) pain (7D19 q)
 - j) posture (7D19 r)
 - k) range of motion (7D19 s)
 - l) reflex integrity (7D19 t)
 - m) sensory integrity (7D 19 u)
6. Select appropriate tests and outcome measurement tools based on best-published evidence and simulated patient presentation. (7D11, 7D19: b, d, e, f, g, l, m, o, q, r, s, t, u, 7D31) [Evaluation]
7. Recall the reliability and validity of various tests and outcome measurement tools presented. (7D19: b, d, e, f, g, l, m, o, q, r, s, t, u, 7D31) [Knowledge]
8. Interpret the results of the tests and outcome measures from the examination of paper patients to make clinical judgments. (7D20) [Evaluation]
9. Conduct a thorough patient history and systems review on a simulated patient during the SON Hospital Day interprofessional learning activity. (7D17, 7D18, 7D39) [Application] (This objective will only be performed if able to schedule with DON)

Methods of Instruction: Online preparatory lectures, Laboratory active and psychomotor learning, IPE, patient cases, team-based learning for each module

Methods of Evaluation: Student competence and attainment of course objectives are assessed using a variety of methods. These methods and their contribution to the final grade are listed in the table below.

<u>Item</u>	<u>Grade Composition</u>
Quizzes (written and videos)	10%
Lab Assignments (written, psychomotor)	5%
Skills Check (psychomotor) (10% each)	20%
Exam 1 (written)	15%
Exam 2 (written)	20%
Final Exam (written)	30%
Total	100%
Course Evaluation Assignment (<i>Extra Credit</i>)	1%

A short pre-test (on lockdown browser) will be given on the first day of class. The content learned in semester 1 that is relevant to this course will be covered. The pre-test is not part of the overall course evaluation and therefore the grade earned is not calculated in the above table. However, students who earn 85% or above on the pre-test will have 1% added to the final course average. For example, if a student earns 89% for the course average (Grade of B) and a 90% on the pre-test, then the overall course average is now 90% giving the student an A for the course. The pre-test will cover medical terminology, Research Methods reliability and validity, and Patient Care vital signs and infection control.

Grading Scale: The following letter grade scale is used for the UTEP Doctor of Physical Therapy Program:

<u>Letter Grade Scale</u>	<u>Numerical Grade Scale</u>
A	90-100
B	80-89
C	75-79
F	Below 75

Required Textbooks and Other Learning Resources:

- 1) Avers D, Brown M. *Daniels and Worthingham's Muscle Testing Techniques of Manual Examination and Performance Testing*. 10th ed. St. Louis, MO: Elsevier Saunders; 2019
- 2) Norkin C, White D. *Measurement of Joint Motion A Guide to Goniometry*. 5th ed. Philadelphia, PA: F.A. Davis Company; 2016. ISBN-10: 080364566X
AVAILABLE FREE AT: Access Physiotherapy at UTEP library

- 3) PhysioU. [Computer software]. Version 5.1.0. Clinical Pattern Recognition, LLC; © 2023 ([link](#)) (This resource will be used throughout the curriculum)
- 4) O’Sullivan SB, Schmitz TJ. *Physical Rehabilitation: Assessment and Treatment*. 8th ed. Philadelphia, Pa: FA Davis Co; 2024
AVAILABLE FREE AT: Access Physiotherapy at UTEP library
- 5) Heick J, Lazaro RT. *Differential Diagnosis for Physical Therapists*. 7th ed. St. Louis, MO: Elsevier Saunders: 2023. ISBN-978-0323722049
- 6) APTA Membership: to access online materials available to members only, including PTNow, and *Guide to PT Practice*

Recommended Textbooks and Other Learning Resources:

Concurrent Anatomy and Exercise Physiology textbooks

Resources Available for Student Success:

Confidential Resources:

- **Center for Accommodations and Support Services (CASS):** If you have or suspect a disability and need accommodation, you should contact the Center for Accommodations and Support Services (CASS) at 747-5148. You can also e-mail the office at cass@utep.edu or go by their office in Union Building East, room 106 (next to the UTEP post office). For additional information, visit the CASS website at <http://sa.utep.edu/cass>.

Additional Resources:

- DPT Library Research Guide: <http://libguides.utep.edu/pt>
- UTEP provides a variety of student services and support. Please refer to the QR code below for a listing of campus resources or visit https://www.utep.edu/advising/student_resources/student-success-resource-hub.html.



University Policies: All students are responsible for following UTEP policies and procedures found in the Handbook of Operating Procedures at www.utep.edu/vpba/hoop

Program Policies: All DPT students are responsible for following all policies and procedures documented in the current DPT Student Handbook. Course policies found in the DPT Student Handbook apply to all courses in the DPT curriculum. The current DPT Student Handbook may be found on the DPT Student Resources site on Blackboard.

Academic Integrity: The UTEP DPT Program has a “**zero tolerance policy**” for scholastic dishonesty. DPT students must always demonstrate academic integrity. The

current DPT Student Handbook outlines specific definitions, expectations, details, and consequences related to academic integrity and scholastic dishonesty. Additional information related to academic integrity is available through the UTEP Division of Student Affairs at www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html

Technology Requirements

1. A computing device with a video camera is required. The computer device must be able to support Respondus LockDown Browser used to enhance the integrity of quizzes and exams completed online. Note: Tablets and cell phones are poorly suited to accomplish the majority of doctoral-level readings, assignments, activities, and research requirements of the program.
2. Reliable internet connection and data access.

Student Course Evaluation:

- The expectation is that each student will complete the online course evaluations distributed by UTEP at the end of the semester.
- See Student Handbook for instructions.
- Student name and course must be on the screenshot to receive credit.

Copyright Statement for Course Materials

- All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated.

Course-Specific Policies:

1. **Professional Behavior Policy:** See DPT Student Handbook “Attendance and Classroom Behavior,” “Professional Behaviors,” and “Unprofessional Behavior:” for general program policy. Additional course-specific is as follows:
 - Professional behavior will be expected in ALL class sessions and inside and outside the classroom.
 - I expect each student to arrive at class and lab prepared and to actively participate without being disruptive.
 - Students demonstrating unprofessional behavior will be warned one time. If the behavior continues, the student will be instructed to leave the classroom for the day, and the class session will be considered an unexcused absence.
 - If a student is consistently ill-prepared, not actively participating, and/or being disruptive (including leaving class during lectures), the student will be contacted to meet with the instructor to discuss the problem.
 - Each subsequent incidence of poor preparation, poor participation, and/or disruption may result in a 1% deduction from the final semester grade.
 - All students are expected to wear appropriate attire for all lab sessions. Proper attire is discussed in the Policies and Procedures manual. Professional dress is suitable for presentations, all guest speakers, and when representing UTEP outside the classroom (i.e., clinic visits). Shorts

and tank tops or T-shirts are required for all lab sessions (JEANS OR OPEN-TOED SHOES OR SANDLES ARE NOT APPROPRIATE FOR ANY LAB SESSION). Students who are not appropriately attired will be instructed to leave the classroom for the day, and the class session will be considered an unexcused absence.

- Each unexcused absence will result in a 5% reduction of your total class grade
2. **Academic Integrity and Scholastic Dishonesty (continued): In addition to UTEP Policies and DPT Student Handbook, course specific details follow.**
- **Junior Cohorts:** NO COURSE CONTENT will be shared with junior cohorts to include but not limited to assignments, tests, notes, powerpoints, study guides created by individuals or classes, videos, etc. Creating and developing in-depth and retained knowledge, comprehension, and competence is derived from doing your own work. Sharing of such content is considered academic dishonesty by both the giver and receiver.
 - **Testing:** To accurately reflect the individual's knowledge contained within their grey matter and ensure fair, unbiased, and unassisted testing, I reserve the right to control the test environment. Controls may include (non-exhaustive list) assigned seating, issued blank paper, randomized questions, use of security software (such as Respondus LockDown Browser with webcam), and ensuring all electronics and other materials that might contain or be able to record information are stowed away from student's access.
 - **Recording:** Students are not authorized to record and/or share any testing activities (quizzes, exams, skills checks, practical exams, or other testing scenarios). Further, graded assignments and activities will not be shared unless assignment directions specifically state that the activity will be shared. "Recording" includes but is not limited to any method used to retain information for future use, including but not limited to audio or video capture, screenshots, pictures, etc. The recording and/or sharing of graded materials is considered cheating regardless of how obtained, distributed, or used (or not used).
 - **Recording:** Student recording of classroom lectures, labs, or other activities is not authorized. If you feel recording a specific non-graded activity is needed, students must attain instructor approval PRIOR TO recording. Further, authorization by the student(s) being recorded must be attained. If approved, recordings are for local, UTEP student educational use only and will not be posted to unsecured, public social media sites. An acceptable site is Microsoft OneDrive (and share the file), email through your UTEP email account.
 - **Labs:** Labs are divided into four groups to enhance the professor-to-student ratio and student learning. Do not share answers, outcomes, cases, or other materials used during the labs with the other lab group. Actively completing lab assignments (without the answers) from start to finish is essential to the active learning, retention, reflection, and clinical reasoning process.

3. **Attendance Policy - Absences:** Refer to the current DPT Student Handbook “Attendance and Classroom Behavior” for the DPT Program policy. Additional course-specific policies are as follows:
- **Attendance at all classes/labs is expected. All faculty have different policies.** Treat this class as you would a job. We are expected to be at class/labs as scheduled and to be on time; I expect the same from you. You are expected to be in class during the time listed. In this class, students are expected to be on time and prepared to begin the course. If you expect to miss a class, you should notify the instructor in writing by email a minimum of 24 hours in advance.
 - If an emergency or illness prevents a student from attending class (e.g., documented serious illness or emergency), communication directly with the instructor is expected 2 hours prior to the beginning of class in writing by email. A verbal message through another student will not suffice unless there are extenuating circumstances where the student is unable to communicate their absence. For any missed class, the student must obtain any materials presented in class and ensure assignments are turned in on time. However, (with very rare exceptions, which will be considered on a case-by-case basis) there will be NO accommodation offered for missed class time. Specifically, there is NO opportunity to make up in-class quizzes or exams before or after the scheduled class or provide individual tutoring for missed content. Additionally, late work caused by your absence will not be accepted. You should make prior arrangements with a classmate to find out what you missed, turn in any work, and/or pick up any handouts.
 - **Missing 30 minutes or more of a class or lab will be considered an absence – during any part of the class/lab.**
 - Each unexcused absence will result in a 5% deduction from your final course grade.
4. **Attendance Policy - Tardiness & Early Departures:** Refer to the current DPT Student Handbook “Attendance and Classroom Behavior” for DPT Program policy. The additional course-specific policy is as follows:
- During classes and labs: Students are expected to be **on time and prepared to begin** class at the scheduled class start time; therefore, tardy students will be penalized as these actions can negatively impact peers’ learning and are considered unprofessional. I use the clock on the computer to determine when the class should start. (Please see the above section) **All faculty have different policies.** If you expect to arrive late (e.g., doctor’s appointment), you should notify me in writing by email at least 2 hours in advance.
 - Please do not get up and leave during lectures without permission. This is considered disruptive behavior.
 - Similarly, if you need to leave class or lab early, you should notify the faculty in writing at least two hours before the start of class.
 - Each incidence of tardiness may result in a 1% deduction from your final semester grade.

- **Missing 30 minutes or more of a class or lab will be considered an absence.**
 - Each unexcused absence will result in a 5% deduction from your final course grade.
5. **Late or Missed Assignments and Assessments Policy:** See current DPT Student Handbook “Written Examination Policy.” The additional course-specific policy is as follows:
- Homework assignments are due online **ONLY** before the due date unless otherwise specified. Students must ensure that their papers have been successfully uploaded as an attachment. Students with difficulty submitting their work online must contact the instructor or help desk immediately. Only after this process has been completed will an assignment be considered to be accepted via email.
 - All papers submitted for grading in this course must have a title page, use 11–12-point font, 1-inch margins, and double spacing. Papers should be submitted in Microsoft Word document format. AMA Style must be adhered to for all student work. Assignments must include students’ names in **BOTH** the document file name and in the top right corner of all pages. Document file names should adhere to the following pattern: student last name_first initial_PT6206_assignment name.doc. Example: STUDENTNAME_PT6206_HospDays.doc.
 - There will be a 10% deduction per day for all late assignments. Any assignment that is more than 3 days late will receive no credit. Assignments for peer review must be submitted on time, or no credit for the peer review will be received.
6. **Electronic Devices:** Refer to the current DPT Student Handbook “Electronic Devices” for DPT Program policy.
- Laptops are allowed for taking notes, accessing lecture/ lab material, or books. **E-mail and social media should be turned off during all class time.**
 - Cell phones and telecommunication devices should be in silent mode, turned off, or left outside of the classroom during lectures or presentations, and labs. If any circumstance necessitates the student to have his/her cell phone turned on in the classroom, it **MUST** be discussed with the instructor **PRIOR** to class. If, during class time, students are found not to be engaged in the class assignment (e.g., on Facebook, studying for another course, etc.), the student will be told to leave the class. This will result in an unexcused absence, which will result in a 5% decrease in the final grade for the course.
 - Each subsequent incidence of using electronic devices may result in 1% deduction from the final semester grade.
 - Pictures or videos taken during classes or labs must be approved.
7. **EXAM Policy:** This includes (written/oral exams, quizzes, skills checks, practical exams)

- Students are not authorized to use any outside help, including classmates, electronic devices, notes, and books.
- No electronics, including phones and smartwatches, should be on or near the student during the examination.
- No hats with brims to be worn during examinations.
- Any suspicious behavior will be reported to the Office of Student Conduct and Conflict Resolution (OSCCR).
- See the current DPT Student Handbook for complete policy.

8. **Skills Check Policy:**

The UTEP Doctor of Physical Therapy (DPT) Program uses skills check-outs as part of the student assessment process in most clinical courses. In this course, each student is required to demonstrate competence through skills check-outs. The student will perform specific skills and may or may not be asked to answer questions related to the general clinical application of skills.

- Information will be shared in class and on Blackboard.

9. **Practical Exam Policy:**

- Not Applicable

10. **Artificial Intelligence Policy:** The use of generative AI tools such as Chat GPT is permitted in this course for the following activities, which must be noted or cited:

- Brainstorming, initial concept development, and refining your ideas;
- Fine-tuning your research questions;
- Finding information on your topic;
- Drafting an outline to organize your thoughts; and
- Checking grammar and style.

However, you may not use AI tools to complete the following activities:

- Impersonating you in classroom contexts, such as by using the tool to compose discussion board prompts assigned to you or content that you put into a Zoom chat;
- Completing group work that your group has assigned to you unless it is mutually agreed upon and approved in class that you may utilize the tool;
- Writing a draft of a writing assignment;
- Writing entire sentences, paragraphs, or papers to complete class assignments.
- Students must cite any borrowed content sources to comply with all applicable citation guidelines and copyright law and avoid plagiarism. Instances that violate these guidelines will be referred to the Office of Student Conduct and Conflict Resolution.
- Plagiarism detecting software: Some of your course work and assessments may be submitted to SafeAssign, a plagiarism-detecting software. SafeAssign is used to review assignment submissions for originality and will help you learn how to attribute sources rather than paraphrase properly.

Expectations to Promote Success

- Students attaining a grade below 80% on any quiz, exam, or assignment are expected to schedule a meeting with the professor. The goal is to ensure comprehension of the material, identify strategies to improve student performance, and determine if alternative teaching methods may enhance learning. Our goal is for your success.
- Students will practice psychomotor skills on various body types for at least 3-4 additional hours weekly outside of dedicated lab times. This is the minimal time required to attain basic competence and ability to perform that will be required during clinical rotations. Practice, practice, practice.
- Additionally, practicing these skills on multiple body types is essential to refine precision and efficiency. Students will not develop the required competency and efficiency if they only practice these skills in scheduled lab sessions.

Tutoring & Peer Mentorship:

- Camila Carballo (pccarballo@miners.utep.edu), Kaily Griffin (kagriffin@miners.utep.edu), and Alex Montoya (ajmontoya3@miners.utep.edu) (Class of 2026 students) are available for tutoring and peer mentorship.
- Watch for emails from them regarding scheduled weekly tutoring hours and peer mentorship activities or contact them directly if you need tutoring or guidance from successful DPT students who are motivated to help you succeed.

Course Content and Schedule: The course outline/schedule is below. (Note: Students will be notified of changes via Blackboard or e-mail. Additional details may be available in supporting course documents provided by the course instructor.)

NOTE: All Quizzes, Tests, and written examinations are F2F in class using Respondus LockDown Browser unless otherwise noted. Be sure to bring your computer to the lecture and lab and use the most recent version of RLDB. Home-based examinations also require RLDB with a webcam.

- **BOLD NAME:** Under each topic is the name of the instructors responsible for this content. The bold name is the lead instructor for this content.
- **Red dates or times:** Indicates a change from the schedule.
- **Blue highlight:** Indicates an assignment
- **Yellow highlight:** Indicates examination, quiz, or skills checkout.

Wk	Date	Location	Topic	Weekly Reading Assignments
MODULE 1-Intro to the Examination Process- Weeks 1-3				
1	Aug 26	Lecture 12:45-1:45	Pre-test GUTIERREZ	<i>over semester 1</i>
	Aug 26 Lab A & B	Lab 1 Lecture (2:00-5:00)	ICF, Pt Management Model <i>Guide to PT Practice</i> GUTIERREZ/Valdez	<ul style="list-style-type: none"> • APTA Guide to PT Practice Section: Introduction, Principles, Measurements, PT Exam & Eval • Heick -Ch 1 Intro to Screening • BBL materials
	Aug 28 Lab A & B	Lab 2 Lecture (1:00-4:00)	Clinical Reasoning, Reliable and Valid T&M GUTIERREZ/Singlegon	<ul style="list-style-type: none"> • APTA Guide to PT Practice Section: Introduction, Principles, Measurements, PT Exam & Eval • O'Sullivan-Ch 1 Clin Decision Making • Review Ch 7 in Jewel (Research Methods) • BBL materials
2	Sep 2	HOLIDAY	Labor Day	
	Sep 4 Lab A & B	Lab 2 Lecture (1:00-4:00)	History SINGLETON/Valdez	<ul style="list-style-type: none"> • APTA Guide to PT Practice Section: PT Exam & Eval • Heick -Ch 2 • BBL materials
		Assignment	History Assignment	Due at end of class
3	Sep 9	Lecture	Quiz 1 SINGLETON/Gutierrez	<i>over Module 1</i>
		Asynch Lecture	Systems Review (<i>Complete prior to lab</i>) SINGLETON	<ul style="list-style-type: none"> • APTA Guide to PT Practice- Systems Review BBL materials
	Sep 9/10	Lab 1	Systems Review SINGLETON/Valdez	
MODULE 2- Cardiopulmonary System- Week 3				
3		Asynch Lecture	Circulation (arterial, venous, lymphatic) and Anthropometric Characteristics (<i>Complete prior to lab</i>) SINGLETON	<ul style="list-style-type: none"> • APTA Guide to PT Practice- Anthropometric Characteristics, Circulation
	Sep 11/12	Lab 2	Anthropometric Characteristics Lab (girth demonstration) SINGLETON/Valdez	
	Sat Sep 14	Assignment	Systems Review	Due by 8 am, see instructions

MODULE 3- Neuromuscular System- Weeks 4-5				
4	Sep 16	Lecture	Quiz 2 TORRIANI/Gutierrez	<i>over Module 2</i>
		Lecture	Sensory Integrity TORRIANI	<ul style="list-style-type: none"> • O'Sullivan-Ch 3 • APTA Guide to PT Practice-Sensory Integrity • Come prepared to work on Systems Review Video assignment (bring cell phone with memory or alternative recording device)
	Sep 16/17	Lab 1	Sensory Integrity TORRIANI/ Singleton/Valdez	
	Sep 18/19	Lab 2	Mental Functions Balance TORRIANI/Singleton/Valdez	<ul style="list-style-type: none"> • O'Sullivan-Ch 3, 6, • APTA Guide to PT Practice-Mental Functions, Balance • BBL materials
5	Sep 23	Lecture	QUIZ 3 TORRIANI/Gutierrez	<i>over Module 3 Sensory Integrity, Mental Functions and Balance</i>
	Sep 23/24	Lab 1	Self-Care and Domestic Life Mobility (Including Locomotion) TORRIANI/Singleton/Valdez	<ul style="list-style-type: none"> • O'Sullivan-Ch 8, 9 • APTA Guide to PT Practice-Self-Care, Mobility • BBL materials
MODULE 4-Musculoskeletal System Weeks 5.5-15				
5	Sep 25 Lab A & B	Lab 2 Lecture (1:00 – 5:00)	Pain (On Quiz 4, Exam 2) AOYAGI/Valdez	<ul style="list-style-type: none"> • Heick -Ch 3 • APTA Guide to PT Practice-Pain
6	Sep 30	Lecture	WRITTEN EXAM 1 (60 minutes) Room 120 SINGLETON/Gutierrez	<ul style="list-style-type: none"> • <i>Weeks 1-4 including sensory integrity, Mental Functions/Balance & Self Care and Domestic Life/Mobility; NOT Pain</i>
	Sep 30/ Oct 1	Lab 1	Practice for skills check SINGLETON/Valdez	<ul style="list-style-type: none"> • Modules 1-3

	Oct 2 Lab A & B	Lecture	ROM & Muscle Length & Muscle Performance Lectures (Including Strength, Power, Endurance, and Length) SINGLETON	<ul style="list-style-type: none"> • ROM: Norkin-Ch 1, 2, 3 • ROM: APTA Guide to PT Practice • Muscle length: Norkin sections- Chp 1, 2, 5, 6, 7, 8, 9, 10. • Daniels and Worthingham-Ch 1, 2. • D&W: brief review of Chp 8 • APTA Guide to PT Practice- Muscle Performance
7	Oct 7/8	Lab 1 (1:00-5:00 on the day of your lab)	SKILLS CHECK #1 <i>SINGLETON/ GUTIERREZ/ AOYAGI/ TORRIANI</i>	
	Oct 9/10	Lab 2	Spine ROM SINGLETON/Valdez	<ul style="list-style-type: none"> • Norkin-Chp 11, 12, 13 • APTA Guide to PT Practice- Muscle Performance and ROM
8	Oct 14	Lecture	QUIZ 4 <i>SINGLETON/Gutierrez</i>	<i>over Pain. ROM/ Muscle Length and ROM</i>
	Oct 14/15	Lab 1	Spine MMT SINGLETON/Valdez	<ul style="list-style-type: none"> • Norkin-Chp 11, 12, 13 • APTA Guide to PT Practice- Muscle Performance and ROM
	Oct 16/17	Lab 2	Spine ROM & MMT/ + Posture SINGLETON/Valdez	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 3, 4 • Norkin-Chp 11, 12, 13 • APTA Guide to PT Practice- Muscle Performance and ROM • O'Sullivan-Ch 5 • APTA Guide to PT Practice- Posture
9	Oct 21	In person Respondus (1:00-2:00)	WRITTEN EXAM 2 (60 minutes) Room 113 AOYAGI/Gutierrez	• Cumulative including Self-Care & Domestic Life, Mobility, pain, AND LECTURES OVER ROM/muscle length, and muscle performance.
	Oct 21/22	Lab 1	UE ROM + Muscle Length SINGLETON/Aoyagi	<ul style="list-style-type: none"> • Norkin-Ch 4, 5, 6, 7 • APTA Guide to PT Practice- Muscle Performance and ROM
	Oct 23/24	Lab 2	UE MMT SINGLETON/Aoyagi	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 5 • APTA Guide to PT Practice- Muscle Performance and ROM

10	Oct 28	Lecture	QUIZ 5 SINGLETON /Gutierrez	over Module 4 including posture, Spine ROM/MMT (<u>Not</u> UE ROM & MMT/Length
	Oct 28/29	Lab 1	UE, ROM, SINGLETON/Aoyagi	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 5 • Norkin-Ch 4, 5, 6, 7 • APTA Guide to PT Practice- Muscle Performance and ROM
	Oct 30/31	Lab 2	UE, ROM, Length, MMT wrap-up SINGLETON/Aoyagi	
11	Nov 4	Lecture	LE ROM/MMT SINGLETON	<ul style="list-style-type: none"> • Norkin-Ch 8, 9, 10 • APTA Guide to PT Practice- Muscle Performance and ROM
	Nov 4/5	Lab 1	LE ROM SINGLETON/Aoyagi	
	Nov 6/7	Lab 2	LE ROM and Length SINGLETON/Aoyagi/Gutierrez	
12	Nov 11	Lecture	QUIZ 6 SINGLETON/Gutierrez	over UE ROM & MMT/Length, LE ROM/Length
	Nov 11/12	Lab 1	LE MMT SINGLETON/Aoyagi	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 6 • APTA Guide to PT Practice- Muscle Performance and ROM
	Nov 13/14	Lab 2	LE ROM, Length, MMT wrap-up SINGLETON/Aoyagi	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 6 • Norkin-Ch 8, 9, 10 • APTA Guide to PT Practice- Muscle Performance and ROM
13	Nov 18	Lecture	Peripheral nerve integrity Reflex Integrity (<i>Complete prior to lab</i>) TORRIANI/Singleton	<ul style="list-style-type: none"> • O'Sullivan- Ch 5 • APTA Guide to PT Practice- Reflex Integrity and Peripheral Nerve Integrity
	Nov 18/19	Lab	Peripheral nerve integrity Reflex Integrity lab TORRIANI/Singleton	
			Assignment on your own	Peripheral Nerve Integrity
	Nov 20/21	Lab	Endurance Power SINGLETON/Aoyagi	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 5 (endurance), Ch 8 (power)
14	Nov 25	Lecture	Wrap up SINGLETON	
	Nov 25/26	Lab	Putting in All Together SINGLETON/Torriani	<ul style="list-style-type: none"> • Supplied Cases • All Module 4 resources
	Nov 26/27	HOLIDAY	THANKSGIVING	

15	Dec 2	Lecture	TBD SINGLETON	
	Dec 2/3	Lab	Practice Lab for Skills Check SINGLETON/Torriani	• All Module 4 resources
	Dec 4/5	Lab (1:00-5:00 on the day of your lab)	SKILLS CHECK #2 (over Module 4) GUTIERREZ/ SINGLETON/ TORRIANI/ AOYAGI	• All Module 4 resources
16	Dec 11 1:00- 3:00	Respondus	WRITTEN FINAL EXAM (120 minutes) TORRIANI/Gutierrez	• Comprehensive • All resources