

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

PT 5204

TESTS AND MEASURES

Fall 2021

COURSE SYLLABUS

Credit Hours: 2

Contact Hours: Total: 90 hrs
Lecture: 0 hrs; Lab: 90 hrs; Clinic: 0 hrs.

Schedule: Mondays: 1:00-4:00 pm
Wednesdays: 1:00-4:00 pm
Room 113/115
(see schedule for exact times)

Coordinator/Instructors:

Faculty: Bryan Boyea, PT, DPT, OCS

Office location: 1101 N Campbell Street, Room 310
Phone #: (915) 747-8219; cell phone # 575-650-9121
E-mail: blboyea@utep.edu

Office hours: <https://calendly.com/dr-boyea>, if available times do not work with your schedule, please email me directly to coordinate alternative time.

Faculty: Michelle Gutierrez, PT, DSc

Office location: 1101 N Campbell Street, Room 308
Phone #: (915) 747-8215; cell phone # 915-346-9631
E-mail: mgutierrez28@utep.edu

Office hours: By appointment only <https://calendly.com/drgutierrez/30-minute-meeting>, if available times do not work with your schedule, please email be directly to coordinate alternative time.

Faculty: Kathy Reyes-Brooks, PT, DPT

Cell Phone #: (915) 491-2033
E-mail: kmreyes6@miners.utep.edu
Office hours: By appointment only

COVID-19 Notice: This course has returned to a primarily face-to-face (F2F) format. The course could revert to a blended learning course with a mix of virtual (online) and face-to-face (F2F) content delivery and assessment based on emerging CDC, Texas, and UTEP COVID-19 policies. Blue text is still applicable for this course as some content is expected to be delivered online. These policies may change, depending on local, state, and national conditions. Failure to follow safety policies will be treated as unprofessional behavior.

Infection Control: *Compliance with UTEP approved infection control policies are required to maximize safety. This plan parallels current, contemporary infection control practices seen in physical therapy educational and clinical settings.*

Special Request: *We request students to continue vigilance with personal and class level infection control measures to maximize safety to your family, your UTEP family (peers, faculty, staff), and community at large. Simple measures such as continued vigilance with hand hygiene, mask wear, social distancing, and maintaining your personal health and wellness are proven measures to minimize risk.*

Course Description: This laboratory course is an introduction to the physical therapy examination and clinical reasoning process. The components of the examination included in this course are history, systems review, and various tests and outcome measures for a variety of patient diagnoses across the lifespan.

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 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]

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) (4)	10%
Lab Assignments (written, psychomotor)	5%
Skills Check (psychomotor)	20%
Exam 1 (written)	15%
Exam 2 (written)	20%
Final Exam (written)	30%
Total	100%

A short pre-test (hardcopy) 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: <https://0-fadavispt-mhmedical-com.lib.utep.edu/>
- 3) O'Sullivan SB, Schmitz TJ. *Physical Rehabilitation: Assessment and Treatment*. 7th ed. Philadelphia, Pa: FA Davis Co; 2019
AVAILABLE FREE AT: <https://0-fadavispt-mhmedical-com.lib.utep.edu/>
- 4) Goodman CC, Heick J, Lazaro RT. *Differential Diagnosis for Physical Therapists*. 6th ed. St. Louis, MO: Elsevier Saunders; 2018. ISBN-978-0-32347849-6
- 5) 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

Technology Requirements

1. A computing device with a video camera is required. The computer device must be able to support Respondus Lock Down Browser with Webcam 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 are also required.

Resources Available for Student Success:**Confidential Resources:**

- **Center for Accommodations and Support Services (CASS):** If you have or suspect a disability and need accommodations, you should contact the Center for Accommodations and Support Services (CASS) at 747-5148. You can also email 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>.
- **The UTEP Student Health Center:** Union East Suite 100; 915.747.5624; www.utep.edu/chs/shc
- **The UTEP Counseling and Psychological Services:** 202 Union West, 915.747.5302; www.utep.edu/student-affairs/counsel

Additional Resources:

- Division of Student Affairs. 915.747.5076, www.utep.edu/student-affairs
- DPT Library Research Guide: <http://libguides.utep.edu/pt>
- Writing Center: 915.747.5112. <https://uwc.utep.edu>
- Computer Labs: Independent Learning Center (ILC), 1st floor Campbell Building

- Military Student Success Center: 915.747.5342, www.utep.edu/studentaffairs/mssc
- Student Wellness Program. 915.747.6738, www.utep.edu/chs/wellness

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 demonstrate academic integrity at all times. 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/academicintegrity.html

Course-Specific Policies:

1. **Attendance Policy - Absences:** Refer to current DPT Student Handbook “Attendance and Classroom Behavior” for the DPT Program policy.
 - Attendance is expected weekly. Therefore, **no absences are allowed.** HOWEVER, with very rare exception (e.g., documented serious illness or emergency), the absence will be considered on a case-by-case basis. There will be NO accommodations offered for missed class time. Specifically, there is NO opportunity to make up exams, either in advance of or after the scheduled class, or provide individual tutoring for missed content. Additionally, late work caused by your absence will not be accepted and this could affect your team performance.
 - *NOTE: Being “on time” in the online learning environment means that you have arrived into the virtual classroom & are fully “connected” PRIOR to the start of class.*
 - If you miss a class for any reason, it will be considered unexcused unless it is due to documented illness or emergency. In these cases, you should email me and then arrange a meeting with me upon your return to school to discuss why you missed class. Documentation will be required for any additional absence (e.g., doctor’s note documenting illness or treatment). We will notify you after our meeting and review of your documentation whether or not the absence will be considered excused or unexcused.
 - Missing 50% or more of a class will be considered an absence.

- For each incident of an unexcused absence, 5% will be deducted from your final semester grade
2. **Attendance Policy - Tardiness & Early Departures:** Refer to current DPT Student Handbook “Attendance and Classroom Behavior” for DPT Program policy.
- We use the clock on the computer to determine when class should start. If you expect to arrive late (e.g., doctor’s appointment), you should notify me in writing by email or call at least 2 hours in advance. If you are consistently late for any reasons, we will contact you to meet with me to discuss the problem. Each subsequent incidence of tardiness may result in 1% deduction from your final semester grade.
 - *During online lectures, we expect your cameras to be turned on so that we may maximize our engagement with each other; we consider having your camera on to be a component of active participation/attendance. Mute your microphone when you are not contributing to the discussion in the virtual classroom to avoid being unnecessarily disruptive. If you must “leave” briefly (e.g., to go to the toilet), then please use the relevant online symbol to indicate to me that you have “stepped out” or send me a private message in the Chat box.*
 - *If your Internet bandwidth is too poor to allow consistent use of video, please contact the UTEP help desk for alternative solutions or discuss with faculty.*
3. **Electronic Devices:** Refer to current DPT Student Handbook “Electronic Devices” for DPT Program policy.
- If during the 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.
4. **Professional Behavior Policy:** See DPT Student Handbook “Attendance and Classroom Behavior”, “Professional Behaviors” and “Unprofessional Behavior:” for general program policy.
- Students must come to lab in appropriate lab attire with closed toe shoes and socks. Refer to the “Dress Code” policy in the DPT Student Handbook. Dress code for laboratory will be enforced and students will be dismissed from class if not dressed appropriately for the lab experience. If a student is dismissed, this will count as an unexcused absence with consequences as described above in #1.
 - *NOTE: The online learning environment is generally not optimally conducive to promoting a professional environment. Dogs bark, and kids scream, and most of us have “offices” in bedrooms. We understand that flexibility is necessary. However, we expect students to be sitting or standing upright during class – as opposed to lying down. Lying down would not be acceptable in a face-to-face classroom. Additionally, we expect your cameras to be turned on so that we may maximize our engagement with each other; we consider having your camera on to be a component of active participation. Mute your microphone when you are not contributing to the discussion in the virtual classroom to avoid being unnecessarily disruptive.*

1. See the above attendance policy.

5. **Late or Missed Assignments and Assessments Policy:** See current DPT Student Handbook "Written Examination Policy".

- Late assignments/quizzes will result in grade deductions. Percentage deductions vary on the assignment/quiz and how late submitted.

ASSIGNMENTS ARE NOT ACCEPTED IF MORE THAN 48 HRS LATE.

6. **Pandemic Safety:**

- **General Course Policy.** All students are expected to follow the safety policies of the DPT Program. These policies may change, depending on local, state, and national conditions. Failure to follow safety policies will be treated as unprofessional behavior.
 - Mask wear is not required. However, if you are not comfortable sitting with or working in close proximity with a student(s), faculty member, or guest speaker who chooses to not wear a mask, you have the right to ask them (in a non-confrontational manner) to don a mask. If they still choose not to wear a mask (which is their right), please notify me so that I may make alternate arrangements.
 - Course faculty and guest speakers have the right to request non-mask wearing students to don a mask if close interactions are required for teaching-learning purposes. Students are encouraged to respect their request. If the student(s) chooses not to don a mask, then the faculty and/or guest speakers have the right to avoid close contact – even if avoiding close interactions may compromise teaching-learning.
 - Mask wear will be expected during skills checks/practical examinations when close contact cannot be avoided – similar to use of masks in clinical sites.
- **Dr Boyea and Gutierrez's Pandemic Special Requests:**
 - **Wear a facemask** when in lecture and lab as social distancing is not possible. In light of new COVID-19 delta variant and unknown emerging variants, I request each student make the personal choice to wear a properly fitted/worn facemask to 1) minimize transmission risk to yourself, your family, your UTEP family (peers, faculty, staff), and the community at large, 2) minimize risk of potential barrier to learning imparted by quarantine, and 3) minimize risk of educational delays. Mask wear is an effective, scientifically supported measure to reduce COVID transmission and is the standard of care in clinical environments regardless of vaccination status.
 - **Continue vigilance** in and out of the classroom with maintaining: 1) your personal health and wellness to maximize your immune system 2) hand hygiene, 3) surface sanitization protocols, and 4), apply social distancing when able.
 - **Vaccination.** Importantly, I also encourage vaccination but recognize this is a personal choice with many nuanced personal concerns.
- **Student Responsibilities**
 - **Comply** with UTEP approved infection control policies are required to maximize safety. This plan parallels current, contemporary infection control practices seen in physical therapy educational and clinical settings.

- **Contact course instructor** as soon as possible so that we can work on appropriate response and accommodations if 1) you are feeling unwell, 2) have been diagnosed with COVID-19, 3) are experiencing COVID-19 symptoms, or 4) have had recent contact with a person who received a positive coronavirus test.
- **Stay at home** if you (1) have been diagnosed with COVID-19, (2) are experiencing COVID-19 symptoms.
- **Report:** If you have tested positive for COVID-19, notify:
 - 1) Dr Gurovich (to assess appropriate program response),
 - 2) course instructor (so temporary accommodations can be coordinated if needed), and
 - 3) covidaction@utep.edu (so that the Dean of Students Office can provide you with support and help with communication with your professors).
- The Student Health Center is equipped to provide COVID-19 testing. For details go to <https://www.utep.edu/chs/covid-testing>
- The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.

7. **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 by means of skills check-outs. The student will perform specific skills; 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.

8. **Practical Exam Policy:**

- Not Applicable.

9. **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 a variety of 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, it is essential to practice these skills on multiple body types to refine precision and efficiency. Students will not develop the required competency and efficiency if they only practice these skills in scheduled lab sessions.

10. Academic Integrity (continued): In addition to the information presented above, additional course-specific details follow.

- **Junior Cohorts:** NO COURSE content will be shared with junior cohorts.
- **Testing:** To accurately reflect the individual's knowledge contained within their grey matter and ensure a fair, unbiased, and unassisted testing, we reserve the right to control the test environment. Controls may include (non-exhaustive list) assigned seating, issued a blank paper, randomized questions, use of security software (such as Respondus Lock Down Browser [with a webcam](#)) and ensuring all electronics and other materials that might contain or be able to record information is 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 the activity will be shared. "Recording" includes but not limited to any method used to retain information for future use to include but not limited to audio or video capture, screen shots, 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 of a specific non-graded activity is needed, students must attain instructor approval PRIOR TO recording. Further, authorization by student(s) being recorded must be attained. If approved, recordings are for local, UTEP student educational use only and will not be posted to unsecure, public social media sites. Acceptable site is Microsoft OneDrive (and share the file), e-mail through your UTEP e-mail account.
- **Labs:** Labs are generally divided into two groups to enhance 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 labs assignments (without the answers) from start to finish is essential to the active learning, retention, reflection, and clinical reasoning process.

Course Content and Schedule: (Note: Students will be notified of changes via Blackboard or email. Additional details may be available in supporting course documents provided by the course instructor).

Course Outline:

- Course outline/schedule is below.
- Course outline/schedule is subject to change.
- **NOTE:** All Quizzes, Tests, and written examinations are F2F in lab using Respondus Lock Down Browser unless otherwise noted. Be sure to bring your computer to lab and are using the most recent version of RLDB. Home based examinations also require RLDB with webcam.

Wk	Date	Location	Topic	Weekly Reading Assignments
MODULE 1-Intro to the Examination Process- Weeks 1-3				
1	8-23 Mon	Lecture (1:00-4:30)	Pre-test (semester 1) ICF, Pt Management Model <i>Guide to PT Practice</i> GUTIERREZ <i>Sign up for Systems Review Group</i>	<ul style="list-style-type: none"> • APTA Guide to PT Practice (link) Section: Introduction, Principles, Measurements, PT Exam & Eval • Goodman-Ch 1 Intro to Screening • O'Sullivan-Ch 1 Clin Decision Making • Review Ch 7 in Jewel (Research Methods) • BBL materials
	8-25 Wed	Lecture (1:00-4:00)	Clinical Reasoning, Reliable and Valid T&M BOYEA	
2	8-30 Mon	Lab (1:00-4:00)	History GUTIERREZ	<ul style="list-style-type: none"> • APTA Guide to PT Practice Section: PT Exam & Eval • Goodman-Ch 2 • BBL materials
		Assignment	History Assignment due at end of class on BBL	
	9-1 Wed	Asynch Lecture	Systems Review (Complete prior to lab) GUTIERREZ	
		Lab (1:00-4:00)	Systems Review GUTIERREZ/BROOKS	
MODULE 2- Cardiopulmonary System- Week 3				
3	9-6	HOLIDAY	Labor Day	
	9-7	Assignment	Systems Review Part 1	• Due by 10 pm, see instructions
	9-8 Wed	Asynch Lecture	Circulation (arterial, venous, lymphatic) and Anthropometric Characteristics (Complete prior to lab) GUTIERREZ	<ul style="list-style-type: none"> • APTA Guide to PT Practice- <i>Anthropometric Characteristics, Circulation</i> • Come prepared to work on Systems Review Video assignment (bring cell phone with memory or alternative recording device)
Lab (1:00-5:00)		Quiz 1 (over Module 1) Anthropometric Characteristics Lab (girth demonstration) 4th hour: Syst Rev Video (dedicated lab to work on this) GUTIERREZ/BROOKS		

MODULE 3- Neuromuscular System- Weeks 4-5				
4	9-12	Assignment	Systems Review Part 2	• Due by 10 pm, see instructions
	9-13 Mon	Asynch Lecture	Sensory Integrity (Complete prior to lab) GUTIERREZ	• O'Sullivan-Ch 3 • APTA Guide to PT Practice-Sensory Integrity
	9-13 Mon	Lab (1:00-4:00)	Quiz 2 (over Module 2) Sensory Integrity GUTIERREZ/Brooks	
	9-15	Assignment	Systems Review Part 3 Video	• Due by 10 pm, see instructions
	9-15 Wed	Lab (1:00-5:00)	Mental Functions Balance (On Quiz 3, Exam 2) GUTIERREZ/Brooks	• O'Sullivan-Ch 3, 6, • APTA Guide to PT Practice-Mental Functions, Balance • BBL materials
5	9-20 Mon	Lab (2:00-5:50)	Self-Care and Domestic Life Mobility (Including Locomotion) (On Quiz 3, Exam 2) GUTIERREZ/Brooks	• O'Sullivan-Ch 8, 9 • APTA Guide to PT Practice-Self-Care, Mobility • BBL materials
	9-22 Wed	Lab (1:00-4:00)	Practice for skills check GUTIERREZ/Brooks	• Modules 1-3
6	9-27 Mon	In person Respondus (1:00-2:00)	Written Exam 1 (60 minutes) Room 113/115	• Weeks 1-4 including sensory integrity Not Mental Functions/Balance & Self Care and Domestic Life/Mobility
	9-29 Wed	Lab (1:00-5:00)	SKILLS CHECK #1 GUTIERREZ/Boyea/Brooks	• Modules 1-3 • Schedule and rubric posted on BB
MODULE 4-Musculoskeletal System Weeks 7-15				
7	10/04 Mon	Asynch Lectures	Pain – 3 lectures (~95 min) BOYEA (BROWNE Lecture) (complete prior to lab)	• Goodman-Ch 3 • APTA Guide to PT Practice-Pain
		Lab (1:00-4:00)	Quiz 3 (over Module 3) Pain Lab ROM & Muscle Length Lecture BOYEA	• Pain: Goodman-Ch 3 • Pain: APTA Guide to PT Practice 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.
	10/06 Wed	Asynch Lecture	Muscle Performance (Including Strength, Power, Endurance, and Length) (Complete prior to lab) BOYEA (BROWNE lecture)	• Daniels and Worthingham-Ch 1, 2. • D&W: brief review of Chp 8 • APTA Guide to PT Practice- Muscle Performance

	10/06 Wed	Lab (1:00-4:00)	Spine ROM BOYEA/Gutierrez	<ul style="list-style-type: none"> • Norkin-Chp 11, 12, 13 • APTA Guide to PT Practice- Muscle Performance and ROM •
8	10-11 Mon	In person Respondus (1:00-2:00) Room 113/115	Written Exam 2 (60 minutes)	<ul style="list-style-type: none"> • Cumulative including Self-Care & Domestic Life, Mobility, pain, ROM/muscle length, and muscle performance lectures.
		Lab (2:00-4:00)	Spine MMT BOYEA/Gutierrez	<ul style="list-style-type: none"> • Norkin-Chp 11, 12, 13 • APTA Guide to PT Practice- Muscle Performance and ROM •
	10-13 Wed	Lab (1:00-4:00)	Spine ROM & MMT Wrap-Up BOYEA/Gutierrez	<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
9	10-18 Mon	Lab (3:00-5:50)	Posture / UE ROM BOYEA/Brooks	<ul style="list-style-type: none"> • O'Sullivan-Ch 5 • APTA Guide to PT Practice- Posture • Norkin-Ch 4, 5, 6, 7 • APTA Guide to PT Practice- Muscle Performance and ROM
	10-20 Wed	Lab (1:00-4:30)	UE ROM & MM Length BOYEA/Brooks	<ul style="list-style-type: none"> • Norkin-Ch 4, 5, 6, 7 • APTA Guide to PT Practice- Muscle Performance and ROM
10	10-25 Mon	Lab (1:00-4:00)	Quiz 4 (over Module 4 starting with pain and including posture, Spine ROM/MMT (Not UE ROM & MMT/Length)) UE MMT BOYEA/Brooks	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 5 • APTA Guide to PT Practice- Muscle Performance and ROM
	10-27 Wed	Lab (1:00-4:30)	UE MMT BOYEA/Brooks	<ul style="list-style-type: none"> • Daniels and Worthingham-Ch 5 • APTA Guide to PT Practice- Muscle Performance and ROM
11	11-01 Mon	Lab (1:00-4:00)	UE, ROM, Length, MMT wrap-up BOYEA/Brooks	<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
	11-03 Wed	Lab (1:00-4:30)	LE ROM BOYEA/Brooks	<ul style="list-style-type: none"> • Norkin-Ch 8, 9, 10 • APTA Guide to PT Practice- Muscle Performance and ROM
12	11-08 Mon	Lab (1:00-4:00)	LE ROM and Length BOYEA/Brooks	<ul style="list-style-type: none"> • Norkin-Ch 8, 9, 10 • APTA Guide to PT Practice- Muscle Performance and ROM

	11-10 Wed	Lab (1:00-4:30)	LE MMT BOYEA/ Brooks	<ul style="list-style-type: none"> • <i>Daniels and Worthingham-Ch 6</i> • <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>
13	11-15 Mon	Lab (1:00-4:00)	LE ROM, Length, MMT wrap-up BOYEA/ Brooks	<ul style="list-style-type: none"> • <i>Daniels and Worthingham-Ch 6</i> • <i>Norkin-Ch 8, 9, 10</i> • <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>
	11-17	Lab (1:00-4:00)	Endurance Power GUTIERREZ/ Brooks	<ul style="list-style-type: none"> • <i>Daniels and Worthingham-Ch 5 (endurance), Ch 8 (power)</i>
14	11-22 Mon	Asynch Lecture	Peripheral nerve integrity Reflex Integrity (Complete prior to lab) GUTIERREZ	<ul style="list-style-type: none"> • <i>O'Sullivan- Ch 5</i> • <i>APTA Guide to PT Practice-Reflex Integrity and Peripheral Nerve Integrity</i>
		Lab (1:00-4:00)	Peripheral nerve integrity Reflex Integrity lab GUTIERREZ/ Brooks	
		Assignment	Peripheral Nerve Integrity due BBL by 10 PM	
	11-24 Wed	Lab (1:00-4:00)	Putting in All Together BOYEA/Gutierrez/ Brooks	<ul style="list-style-type: none"> • Supplied Cases • All Module 4 resources
15	11/29 Mon	Lab (1:00-4:00)	Practice Lab for Skills Check GUTIERREZ/BOYEA	<ul style="list-style-type: none"> • All Module 4 resources
	12/01 Wed	Lab (1:00-5:00)	SKILLS CHECK #2 (over Module 4) BOYEA/Gutierrez/ Brooks	<ul style="list-style-type: none"> • All Module 4 resources
16	TBD	In-Person Respondus	WRITTEN FINAL EXAM (110 minutes)	<ul style="list-style-type: none"> • Comprehensive • All resources