

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

PT 5204

TESTS AND MEASURES

Fall 2020

COURSE SYLLABUS

Credit Hours: 2

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

Schedule: Mondays 1:00-4:00pm Rm 113/115
Wednesdays 1:00-4:00pm Rm 113/115

Coordinator/Instructor:

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 be directly to coordinate alternative time.

Co-Instructors/Teaching Assistants:
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: Kevin Browne, PT, ScD, OCS, COMT
Office location: 1101 N Campbell Street, Room 313
Phone #: (915) 747-6122; cell phone # 781-835-5045
E-mail: klbrowne@utep.edu
Office hours: By appointment only

COVID-19 Notice: This course has transitioned to a blended learning course with a mix of virtual (online) and face-to-face (F2F) content delivery and assessment. Blue italicized text indicates syllabus additions to align with this transition.

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- *Lectures: virtual using Zoom. Lectures are synchronous (real-time) or asynchronous, please see syllabus for more information. Alternative platforms may be used as needed.*

Second week through November

- *Labs: Face to face (F2F) labs are essential to develop and refine the psychomotor skills required to perform the skills that you will be learning this semester, and this capability is necessary to safely and competently evaluate and treat patients.*

Note: We have a prudent, UTEP approved infection control plan that will be implemented to maximize your safety. This plan concurrently parallels current, contemporary infection control practices seen in physical therapy clinical settings.

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

Updated August 19, 2020

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- (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,

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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) Paz JC, West MP. *Acute Care Handbook for Physical Therapists*. 4th ed. St. Louis, MO: Elsevier Saunders; 2014. ISBN 978-4557-2896-1
- 5) Goodman CC, Heick J, Lazaro RT. *Differential Diagnosis for Physical Therapists*. 6th ed. St. Louis, MO: Elsevier Saunders: 2018. ISBN-978-0-32347849-6
- 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

Technology Requirements

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

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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

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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 (eg, 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 (eg, 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 (eg, 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*

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- 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 us to discuss it.*
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. **Skills Check Policy:**
 7. 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.

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- 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

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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).

Tentative Topic/Assignment Outline:

Wk	Date	Location	Topic	Weekly Reading Assignments
MODULE 1-Intro to the Examination Process- Weeks 1-3				
1	8-24	Zoom	Pre-test (semester 1) Clinical Reasoning- <i>Guide to PT Practice</i> BOYEA	<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
	8-26	Zoom	ICF, Pt Management Model Reliable and Valid T&M GUTIERREZ	
2	8-31	Zoom	History BROWNE	<i>APTA Guide to PT Practice</i> Section: <i>PT Exam & Eval</i> <i>Goodman-Ch 2</i> <i>BBL materials</i>
	9-2	F2F	Systems Review GUTIERREZ/BROWNE	
	9-5 Sat	9am -12pm F2F	Systems Review BROWNE	
MODULE 2- Cardiopulmonary System- Week 3				
3	9-7	HOLIDAY	Labor Day	<i>APTA Guide to PT Practice- Anthropometric Characteristics, Circulation</i> <i>Paz-pp 19-22, and Ch 7</i>
		Asynch	Circulation (arterial, venous, lymphatic) and Anthropometric Characteristics - <i>online lecture</i> GUTIERREZ	

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	9-9	F2F	Quiz 1 (over Module 1) Anthropometric Characteristics Lab (girth demonstration) BROWNE/BOYEA	
MODULE 3- Neuromuscular System- Weeks 4-5				
4		Asynch	Sensory Integrity – <i>online lecture</i> GUTIERREZ	<i>O’Sullivan-Ch 3 Paz-pp 138-139 APTA Guide to PT Practice- Sensory Integrity</i>
	9-14	F2F	Quiz 2 (Over Module 2) Sensory Integrity GUTIERREZ/BOYEA	
	9-16	F2F	Mental Functions Self-Care and Domestic Life GUTIERREZ/BROWNE	<i>O’Sullivan-Ch 8, 9 Paz- pp 131-133 APTA Guide to PT Practice-Mental Functions, Self-care BBL materials</i>
5	9-21	F2F	Balance Mobility (Including Locomotion) GUTIERREZ/BOYEA	<i>O’Sullivan-Ch 6, 8 Paz- pp pp 89-90 APTA Guide to PT Practice- Balance, Mobility BBL materials</i>
	9-23	8am – 9am Respondus	Exam 1 Weeks 1-4 to sensory integrity	
	9-23	F2F time TBD	SKILLS CHECK on MODULES 1-3	<i>Schedule and rubric posted on BB</i>
MODULE 4-Musculoskeletal System Weeks 6-15				
6	9/28	1pm -1:20pm Respondus	Quiz 3 (Over Module 3)	
		Asynch	Pain – lec BROWNE	<i>Goodman-Ch 3 Paz- Ch 21 APTA Guide to PT Practice-Pain</i>
	9/28	Asynch or zoom	Muscle Performance (Including Strength, Power, Endurance, and Length)-lec BROWNE	<i>Daniels and Worthingham-relevant chapters Paz- pp 88-89 APTA Guide to PT Practice-Muscle Performance</i>

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	9/30	Asynch or Zoom	ROM-lec BOYEA	<i>Norkin-PART 1</i> <i>APTA Guide to PT Practice-ROM</i>
7	10-5	F2F	MMT&ROM Spine BOYEA/BROWNE	<i>See relevant chapters on SPINE:</i> <ul style="list-style-type: none"> • <i>Daniels and Worthingham</i> • <i>Norkin</i> <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>
	10-7	8am – 9am Respondus	Exam 2 Cumulative	
	10-7	F2F	MMT&ROM Spine BOYEA/GUTIERREZ	<i>See relevant chapters on SPINE:</i> <ul style="list-style-type: none"> • <i>Daniels and Worthingham</i> • <i>Norkin</i> <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>
8	10-12	F2F	Posture BROWNE/BOYEA	<i>See relevant chapters on Posture:</i> <ul style="list-style-type: none"> • <i>O’Sullivan (Ch 5)</i> <i>APTA Guide to PT Practice-Posture</i>
	10-14	F2F	MMT&ROM UE BOYEA/BROWNE	<i>See relevant chapters on UE:</i> <ul style="list-style-type: none"> • <i>Daniels and Worthingham</i> • <i>Norkin</i> <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>
9	10-19	F2F	MMT&ROM UE BOYEA/GUTIERREZ	<i>See relevant chapters on UE:</i> <ul style="list-style-type: none"> • <i>Daniels and Worthingham</i> • <i>Norkin</i> <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>
	10-21	F2F	MMT&ROM UE BOYEA/GUTIERREZ	
10	10-26	F2F	Quiz 4 (over Module 4 through week 9) MMT&ROM LE BOYEA/BROWNE	<i>See relevant chapters on LE:</i> <ul style="list-style-type: none"> • <i>Daniels and Worthingham</i> • <i>Norkin</i> <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>
	10-28	F2F	MMT&ROM LE BOYEA/GUTIERREZ	
11	11-2	F2F	MMT&ROM LE BOYEA/GUTIERREZ	<i>See relevant chapters on LE:</i> <ul style="list-style-type: none"> • <i>Daniels and Worthingham</i> • <i>Norkin</i> <i>APTA Guide to PT Practice-Muscle Performance and ROM</i>

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	11-4	F2F	Endurance Muscle Length Power BROWNE/GUTIERREZ	<i>See relevant chapters on Power and Posture:</i> <ul style="list-style-type: none"> • <i>Daniels and Worthingham</i>
12		Asynch	Peripheral nerve integrity Reflex Integrity GUTIERREZ	<i>O'Sullivan- Ch 5 Paz- pp 137-138 APTA Guide to PT Practice-Reflex Integrity and Peripheral Nerve Integrity</i>
	11-9	F2F	Peripheral nerve integrity Reflex Integrity lab GUTIERREZ/BROWNE	
	11-11	F2F	Putting it all together GUTIERREZ/BROWNE	All resources
13	11/16	<i>F2F</i>	<i>Practice Lab for Skills Check</i> BOYEA	All resources
	11/18	<i>F2F Time TBD</i>	<i>Skills check on Module 4</i> ALL T&M INSTRUCTORS	All resources
	TBD	Respondus	FINAL EXAM	