PT 6314 Neuromuscular Rehabilitation I Fall 2023

COURSE SYLLABUS

Credit Hours: 3
Contact Hours: Total: 75 hrs
Lecture: 30 hrs; Lab: 45 hrs; Clinic: 0 hrs

Schedule: Lecture: Tue 9:30 am - 11:30 am
Lab: Tue 1:00 pm - 4:00 pm

Coordinator/Instructor:

Faculty: Lily Jimenez, PT, DPT, NCS
Office location: Mesa Building, Room 115Q
Phone #: (915) 599-7306
E-mail: ljimenez8@utep.edu
Office hours: By appointment.

Faculty: Michelle Gutierrez, PT, DSc
Office location: Mesa Building, Room 115U
Phone #: (915) 747-8148
Cell Phone for emergency: 575-650-9121
E-mail: mgutierrez28@utep.edu
Office hours: By appointment. Schedule meetings at:
https://calendly.com/drgutierrez

Faculty: Shashwati Geed, PT, PhD
Phone #: Cell: 608-338-8760
E-mail: sgeed@utep.du
Office hours: By appointment only

Course Description:
Building on anatomical knowledge presented in Neuroscience for Health Sciences, this course offers a systematic review of clinical disorders of the central and peripheral nervous systems, with emphasis on accompanying sensorimotor sequelae. Basic neurological tests and measures are introduced, along with basic treatment interventions.

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:
Upon completion of this course, the student should be able to:
1. Demonstrate effective clinical reasoning for the management of patients/clients* with common neurologic conditions by applying key course concepts. (7A Neuroscience, 7A Pathology; 7B Clinical Reasoning, 7C Nervous System; 7D11) [Application]
2. Determine when patients/clients with common neurologic conditions need further examination or consultation by a physical therapist or a referral to another health care professional. (7D16) [Analysis]
3. Obtain a history and relevant information from patients/clients with a common neurologic condition and from other sources, including medical records. (7D17) [Synthesis]
4. Perform a systems review with patients/clients with common neurologic conditions. (7D18) [Application]
5. Select and competently administer appropriate tests and measures with simulated patients/clients with common neurologic conditions, including the following tests and measures: [Application]
   - Aerobic Capacity/Endurance (7D19a)
   - Assistive Technology (7D19c)
   - Balance (7D19d)
   - Circulation (Arterial, Venous, Lymphatic (7D19e)
   - Self-Care and Civic, Community, Domestic, Education, Social and Work Life (7D19f)
   - Cranial and Peripheral Nerve Integrity (7D19g)
   - Environmental Factors (7D19h)
   - Gait (7D19i)
   - Integumentary Integrity (7D19j)
   - Joint Integrity and Mobility (7D19k)
   - Mental Functions (7D19l)
   - Mobility (including locomotion) (7D19m)
   - Motor function (7D19n)
   - Muscle Performance (7D19o)
   - Neuromotor Development and Sensory Processing (7D19p)
   - Pain (7D19q)
   - Posture (7D19r)
   - Range of motion (7D19s)
   - Reflex Integrity (7D19t)
   - Sensory Integrity (7D19u)
6. Evaluate data from the examination of clients/patients with common neurologic conditions to make clinical judgments (7D20) [Evaluation]
7. Determine goals and expected outcomes for patients/clients with common neurologic conditions that are realistic given the available resources and specify the expected length of time to achieve them. (7D23) [Analysis]
8. Assess outcomes for patients/clients with common neurologic conditions, including the use of appropriate standardized tests and measures that address impairments, functional status, and participation. (7D31) [Evaluation]
9. Respond effectively to urgent and emergent situations for patients/clients with common neurologic conditions, including performing CPR. (7D33) [Application]
10. Document physical therapy patient/client encounter in a manner that communicates clear, concise, and complete information. Further, the document should accurately convey medical necessity, be evidence-based and defensible, and complies with local, state, and federal regulations. (7D32) [Application]
11. Demonstrate professional behavior that is consistent with the APTA Code of Ethics and Core Values during class and lab. (7D4, 7D5) [Application]
12. Communicate effectively and professionally with patients/clients with common neurologic conditions, their families, and other health professionals. (7D7) [Comprehension]

*NOTE: “Patients/clients” in course objectives refer to simulated patients/clients in the simulation laboratory and/or to patients/clients in written cases and/or people with neurologic conditions.

Methods of Instruction: Teaching methods and learning activities will include lectures, labs, video presentations, small group discussions and problem-solving exercises, role-playing, independent reading, homework assignments, and independent case studies. Students are expected to take full advantage of office hours and any supplemental study sessions as an opportunity for individual feedback regarding the understanding of course material from instructors and peers.

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:

<table>
<thead>
<tr>
<th>Item</th>
<th>Grade Composition</th>
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<tbody>
<tr>
<td>Quizzes (written)</td>
<td>10%</td>
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<tr>
<td>Assignments (written)</td>
<td>20%</td>
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<tr>
<td>Final Brain Poster Activity (group)</td>
<td>5%</td>
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<tr>
<td>Lab homework (individual)</td>
<td>5%</td>
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<tr>
<td>CN Video Assignment 1 (individual)</td>
<td>10%</td>
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<tr>
<td>Exam 1</td>
<td>15%</td>
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<tr>
<td>Exam 2</td>
<td>15%</td>
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<tr>
<td>Practical exam (critical thinking)</td>
<td>15%</td>
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<tr>
<td>Final Exam (written)</td>
<td>25%</td>
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<td>Total</td>
<td>100%</td>
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Updated 04Aug22
Grading Scale: The following letter grade scale is used for the UTEP Doctor of Physical Therapy Program:

<table>
<thead>
<tr>
<th>Letter Grade Scale</th>
<th>Numerical Grade Scale</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
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<tr>
<td>B</td>
<td>80-89</td>
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<tr>
<td>C</td>
<td>75-79</td>
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<td>F</td>
<td>Below 75</td>
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Required Textbooks and Other Learning Resources:

Recommended Textbooks and Other Learning Resources:

Updated 04Aug22


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.

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 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.

- **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

- Togetherall: Free online 24/7 mental health support https://www.utep.edu/student-affairs/counsel/services/togetherall.html

Additional Resources:

Updated 04Aug22
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/academic-integrity.html

Course-Specific Policies:
1. Attendance Policy - Absences: Refer to current DPT Student Handbook “Attendance and Classroom Behavior” for the DPT Program policy. All faculty have different policies. Additional course-specific policy are as follows:
   - Attendance is expected to each class. 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.
   - Treat this class as you would a job. If you plan to miss a class, you should notify the instructor in writing by e-mail at a minimum of 24 hours in advance.
   - If you miss a class for any reason, it will be considered unexcused unless it is due to documented illness or emergency.
   - If an emergency or illness prevents a student from attending a 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 e-mail. A verbal message through another student will not suffice. For any missed class,
it is the responsibility of the student to obtain any materials presented in class and to ensure assignments are turned in on time. HOWEVER, (with very rare exception, which 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 in-class quizzes or 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. You should make prior arrangements with a classmate to find out what you missed, turn in any work, and/or pick up any hand-outs.

- Missing 50% or more of a class will be considered an absence – during any part of the class/lab.
- 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. The additional course-specific policy is as follows:

- In this class, students are expected to be on time and prepared to begin the course; therefore, tardy students will be penalized. We use the clock on the computer to determine when the class should start. If you expect to arrive late (e.g., doctor’s appointment), you should notify your faculty in writing by e-mail at a minimum of 24 hours in advance. If there is a quiz for that class time, there are NO accommodations for quizzes. Please see the “Spanish Lunch and Learn” policy for quizzes.
- 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, the faculty should be notified in writing at least 2 hours prior to 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.

- If for any reason, we have online lectures during those lectures, I expect your cameras to be turned on so that we may maximize our engagement with each other; I 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.

I. If your Internet bandwidth is too poor to allow consistent use of video, please contact me to discuss it.
3. **Electronic Devices**: Refer to current DPT Student Handbook “Electronic Devices” for DPT Program policy. The additional course-specific policy is as follows:

- 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 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.
- Each subsequent incidence of using electronic devices may result in 1% deduction from the final semester grade.
- **The taking of pictures or videos during classes or labs must be approved.**

4. **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 of the classroom.
- I expect each student to arrive at classes and labs prepared and to actively participate while not being disruptive.
- Students demonstrating unprofessional behavior will be warned one time, and 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.
- **Eating full meals in class is not allowed in this course due to past disruptive behavior. If you are eating your lunch in class, you will be asked to leave the classroom since lunch time comes after class and before lab. There is plenty of time for you to have meals outside of the class time.**
- 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. Appropriate attire is discussed in the Policies and Procedures manual. Professional dress is appropriate for presentations and for all guest speakers and when representing UTEP outside of the classroom (i.e., clinic visits). Shorts and tank tops or t-shirts are required for all lab sessions (JEANS OR OPEN TOED SHOES 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 in your total class 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 BEFORE the due date unless otherwise specified. Students must ensure that their papers have successfully uploaded as an attachment. Students who have difficulty with 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 e-mail.
• There will be a 10% reduction per day for all late assignments. If the assignment is submitted a minute late, that will be considered the “next day”. Example: Assignment is due at 4pm, submitted 4:01pm= Late. Any assignment more than 3 days late will receive no credit.

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.
  o 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.
  o 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.
  o Mask wear will be expected during skills checks/practical examinations when close contact cannot be avoided – similar to use of masks in clinical sites.
• Faculty’s Pandemic Special Requests:
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.

**Vaccination.** Importantly, We 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.

- **ISOLATION / TESTING / RETURN TO CLASS GUIDANCE:**
  (Based on CDC website that was updated March 30, 2022)

**SITUATION 1:** Test Positive or have Symptoms of COVID-19 (regardless of vaccination status)

- Report it to Dr. Gurovich (agurovich@utep.edu)
- Stay home for 5 days and isolate from others in your home.
- Wear a well-fitting mask if you must be around others in your home.
- End isolation after 5 full days if you are fever-free for 24 hours (without the use of fever-reducing medication) and your symptoms are improving
- Take precautions until day 10 (wear well-fitting mask, social distancing, hygiene)
- Do not travel until a full 10 days
- You need a negative viral/rapid test to come back face-to-face

**SITUATION 2:** You were exposed to COVID-19, Do Not have Symptoms and…

a) **are NOT Up to Date on COVID-19 vaccinations**

- Report it to Dr. Gurovich (agurovich@utep.edu)
- Stay home for 5 days and isolate from others in your home.
- Wear a well-fitting mask if you must be around others in your home.
- Complete a viral/rapid test no sooner than 5 days after exposure
- End isolation after 5 full days if viral/rapid testing is negative and you did not develop symptoms.
- Take precautions until day 10 (wear well-fitting mask, social distancing, hygiene)
- Do not travel for 5 full days, days 6-10 avoid travel if possible, take precautions if must travel

b) **are Up to Date on COVID-19 vaccinations**

- No quarantine necessary (if you do develop symptoms, start quarantine (situation 1))
- Complete a viral test no sooner than 5 days after exposure
- Wear mask for 10 days
- Take precautions during travel

c) **had (+) Viral Test for COVID-19 within the past 90 days**

Updated 04Aug22
o No quarantine necessary (if you do develop symptoms, start quarantine (situation 1))
o Wear mask for 10 days
o Take precautions during travel
o The Student Health Center is equipped to provide COVID-19 testing. For details go to https://www.utep.edu/chs/covid-testing
o 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 www.epstrong.org.

7. EXAM Policy: This includes (written/oral exams, quizzes, skills checks, practical exams)
   • Students are not authorized to use any outside help. This includes electronic devices, notes, books.
   • No electronics including phones and smart watches 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 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.
9. **Practical Exam Policy:** In clinically-oriented, kinesthetically-based courses, each student is required to demonstrate competence by means of laboratory practical examinations. The student must successfully complete each practical examination with a passing score (“C” or better). Should a lower grade be attained, the student may be provided ONE additional testing opportunity to demonstrate competence in that material. The student must demonstrate a passing score on the retake. The student will earn no better than a 75% if he/she passed the 2nd exam. Students failing to achieve this standard for each competency test in a given course will not pass the course.

- Refer to the DPT Student Handbook “Practical Exam Policy” for details.

8. **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.

9. **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, I 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.

**Student Course Evaluation Policy:**

Course evaluations are an important part of the Department’s DPT curriculum assessment plan. The expectation is that all students will give meaningful feedback, in a professional and respectful way, to instructors. Instructors use this feedback to enhance their teaching and to improve students’ learning. Giving feedback in a course is a professional expectation. For example, when you attend a continuing education (CE) course as a clinician, you will be asked to give feedback to be eligible for CE units (CEUs) The Department depends on and is grateful for your valuable feedback. Therefore, *this course will add an ungraded assignment where you will need to upload a screenshot of your completed course evaluation, from your ‘myutep’ course evaluations confirmation page, the week before the final exam. This screenshot will be the proof that you submitted your course evaluation.* This proof may be used as evidence of your professionalism and commitment to the success of the DPT curriculum, when faculty are making decisions regarding who will be chosen for research grant and/or travel funding.

**Course Content and Schedule**: 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 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.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Blackboard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tue Aug 29</td>
<td>Course Introduction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tue Aug 29</td>
<td>Principles of Experience Dependent Neuroplasticity (Geed – LIVE virtual)</td>
<td>LAB activity: Instructions on BB Chapter 3 Fell</td>
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<tr>
<td></td>
<td>1:00-4:00pm</td>
<td>Neuro Exam poster activity (2:00-4:00pm) ***BRAIN NEURO EXAM POSTER ACTIVITY Due 08/29 at 4:00 pm MDT on Dropbox</td>
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<tr>
<td>2</td>
<td>Tue Sept 5</td>
<td>QUIZ 1 Pathological Gait (Gutierrez)</td>
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<td></td>
<td>9:30-11:30</td>
<td>Pathological Gait (Gutierrez)</td>
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<td>3</td>
<td>Tue Sep 12</td>
<td>Pathological Gait (Gutierrez)</td>
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<tr>
<td></td>
<td>9:30-11:30</td>
<td>Pathological Gait (Gutierrez)</td>
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<tr>
<td>4</td>
<td>Tue Sep 19</td>
<td>QUIZ 2 Neurologic Exam: Differential Diagnosis and Screening for Referral</td>
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<tr>
<td></td>
<td>9:30-11:30</td>
<td>• Medical Screening</td>
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<td></td>
<td>• History/Interview (Jimenez)</td>
<td>University of Utah Neurologic Exam Webpage</td>
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<tr>
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<td>Intro to the Neurologic Exam: The 10 Minute Neurologic Screening Examination</td>
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<td>(Jimenez, Gutierrez)</td>
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<td></td>
<td>Tue Sep 19</td>
<td>QUIZ 3 Neurologic Standardized Outcome Measures: Choosing Outcome Measures The Core Set of Outcome Measures</td>
<td>ARTICLE:</td>
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<td>1:00-4:00</td>
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<td>Tue Sep 26</td>
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<th>Time</th>
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<tr>
<td>5</td>
<td>Tue Sep 26</td>
<td>1:00-4:00</td>
<td>LAB: Neurologic Standardized Outcome Measures: The Core Set of Outcome Measures Implementation (Jimenez)</td>
<td>“A core set of Outcome Measures for Adults with Neurologic Conditions Undergoing Rehabilitation” by Moore JL et al. (Synaptic Center)</td>
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<td>Tue Oct 3</td>
<td>9:30-11:30</td>
<td>QUIZ 4 Movement-Task Analysis-Individual-Task-Environment Framework (Jimenez)</td>
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<td></td>
<td>Tue Oct 3</td>
<td>1:00-4:00</td>
<td>Movement-Task Analysis-Individual-Task-Environment Framework (Jimenez)</td>
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<td>Tue Oct 10</td>
<td>9:30-11:30</td>
<td>QUIZ 5 Cortex &amp; Brainstem: Cranial Nerves (Jimenez)</td>
<td>(F) Ch 7 Avers Ch 7 (face muscles)</td>
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<td>Tue Oct 10</td>
<td>1:00-4:00</td>
<td>Lab: Cortex &amp; Brainstem: Cranial Nerves (Gutierrez, Jimenez)</td>
<td>University of Utah Neurologic Exam Webpage</td>
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<td>Cranial Nerve Video Assignment</td>
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<td>FULL Neuro Exam Blumenfeld - PDF (Synaptic Center)</td>
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<td>Tue Oct 17</td>
<td>9:00-10:00</td>
<td>EXAM 1 (Over weeks 1-6)</td>
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<td>Tue Oct 17</td>
<td>10:30-11:30</td>
<td>Screening of Attention, Cognition, Perception, and Communication (Geed - Virtual)</td>
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<td></td>
<td>LAB</td>
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<td>Screening of Attention, Cognition, Perception, and Communication Arousal/Attention/Cognition Disorders of Consciousness Aphasia/Communication disorders (Jimenez)</td>
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<td>Tue Oct 17</td>
<td>1:00-4:00</td>
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<td>Tue Oct 24</td>
<td>9:30-11:30</td>
<td>QUIZ 6 Examination of the Neuromotor System Cerebellum &amp; Basal Ganglia Movement Disorders of Cerebellum Movement Disorders of Basal Ganglia (Jimenez)</td>
<td>(F) Ch 6 (OS) Ch 6</td>
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Updated 04Aug22
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<tr>
<th>Date</th>
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<th>Notes</th>
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<tr>
<td>Tue Oct 24</td>
<td>1:00-4:00</td>
<td>Examination of the Neuromotor System</td>
<td>Motor Coordination Tests/Measures for Motor Coordination and invol movement</td>
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<td>Lab: <strong>Cerebellum &amp; BG</strong></td>
<td>(Jimenez, Gutierrez)</td>
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<td>• Cerebellar Testing</td>
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<td>• Motor Control/ Coordination</td>
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<td>• Involuntary Movement</td>
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<td>(Jimenez, Gutierrez)</td>
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<td>10</td>
<td>Tue Oct 31</td>
<td><strong>QUIZ 7</strong></td>
<td>TBA</td>
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<td></td>
<td>9:30-11:30</td>
<td><strong>Sensory Cortex and Spinal Cord</strong></td>
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<td>General Somatosensory System</td>
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<td>• Higher level/ Cortical sensations</td>
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<td>• Spinal Cord sensations</td>
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<td>(Gutierrez)</td>
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<td>11</td>
<td>Tue Oct 31</td>
<td>Lab: <strong>Sensory Cortex and SC</strong></td>
<td>TBA</td>
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<td>1:00-4:00</td>
<td>• Higher level/ Cortical sensations</td>
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<td>• Spinal Cord sensations</td>
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<td>(Gutierrez, Jimenez)</td>
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<td>Tue Nov 7</td>
<td><strong>QUIZ 8</strong></td>
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<td>9:30-11:30</td>
<td>Examination of the Motor System:</td>
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<td><strong>Motor Cortex</strong></td>
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<td>• UMN/LMN: Muscle Tone</td>
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<td>• Muscle Stretch Reflexes</td>
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<td>• Muscle Synergies</td>
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<td>Tue Nov 7</td>
<td>Lab: <strong>Motor Cortex</strong></td>
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<td>1:00-4:00</td>
<td>• Motor Exam</td>
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<td>• Muscle Tone</td>
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<td>• Muscle Synergies</td>
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<td>(Geed, Jimenez)</td>
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<td>12</td>
<td>Tue Nov 14</td>
<td><strong>EXAM 2 (Weeks 7-11)</strong></td>
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<td>9:30-10:30</td>
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<td>Tue LECT</td>
<td>Spinal Cord Injury (SCI) pathology</td>
<td>NeuroBytes video #3 &amp; 4: SCI Pathology for review SCI Incomplete Syndromes</td>
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<td>Nov 14</td>
<td>10:30-11:30</td>
<td>Incomplete Spinal Cord Syndromes</td>
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<td>SCI: BS&amp;F/Activity Limitations</td>
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<td>(Jimenez)</td>
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<td>Tue LAB</td>
<td>LAB: Spinal Cord Injury (Cont’d)</td>
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<td>Nov 14</td>
<td>1:00-4:00</td>
<td>ASIA Testing</td>
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<td>Incomplete SC Worksheet Cases</td>
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<td>(Geed &amp; Jimenez)</td>
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| 13   | Tue Nov 21 | 9:30-11:30         | **QUIZ 9**  
Traumatic Brain Injury (TBI) pathology  
TBI - BS&F/Activity Limitations  
• Glasgow Coma Scale (GCS)  
• Rancho Los Amigos  
(Jimenez)  | TBA                                                       |
|      | Tue Nov 21 | 1:00-4:00          | **LAB: TBI**  
• Neuro Exam Practice  
• Cases  
• GCS  
• Rancho Los Amigos  
(Geed & Jimenez) |                                                              |
| 14   | Tue Nov 28 | 9:30-11:30         | **QUIZ 10**  
Stroke (CVA) pathology  
CVA – BS&F/Activity Limitations  
(Geed)  | Please review  
Stroke and  
TBI PPTs on BBL  
(N-L) Ch 10, 11  
Recommended:  
(O’S) Ch 15, 19  
NeuroBytes video  
#1:  
CVA Pathology for Review |
|      | Thu Nov 28 | 1:00-4:00          | **LAB: CVA**  
• Neuro Exam Practice  
• Cases  
• Stroke Localization Worksheet  
(Geed, Jimenez) |                                                              |
| 15   | Tue LECT   | Dec 5 9:30-11:30   | **QUIZ 11**  
Evaluation in PT/Task Analysis/ NM Prognosis/ Problem List Formulation/ Prioritize Treatment/ Objectives/Goals  
(Geed)  
*Neuro anatomy poster lecture  |                                                              |
|      | Tue LAB    | Dec 5 1:00-4:00    | Putting it all together - Practice for Practical  
(Geed, Jimenez, Gutierrez) |                                                              |
| 16   | Saturday   | Dec 9 8:00-12:00   | **PRACTICAL** |                                                              |
|      | Dec 11     | 1:00-3:00          | **CUMULATIVE FINAL EXAM** |                                                              |

**Student Expectations:**
1. Homework assignments are due online and must be submitted the due date. There will be a 10% reduction per day for all late assignments. Any assignment more than 3 days late will
receive no credit. Student names are required on all assignments—both in the file name and at the top right corner of the paper.

2. All assignments are to be submitted online ONLY unless otherwise specified. Students must ensure that their papers have successfully uploaded as an attachment. Students who have difficulty with 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 e-mail.

3. All papers submitted for grading in this course must have a title page and references, use 11-12-point font, 1-inch margins, and 1.5 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_PT6414_assignment name.doc. Example: STUDENTNAME_PT6414_HospDays.doc.

Quizzes:
There will be a short quiz at the beginning of class on Tue morning except the week of the midterm exam. See schedule for dates. It will be over the topic covered that day (posted information and reading) and previous information from last week’s topic. Quizzes will be online—Lockdown Browser must be installed and if those quizzes are taken outside of class for any reason you must have a camera.

Exams:
Exams will be in person. See syllabus for content covered and dates on schedule. Lockdown Browser must be installed and if those quizzes are taken outside of class for any reason you must have a camera.

Spanish Lunch and Learn:
You are expected to attend 2 Neuro content Spanish lunch and learn by Dr. Gurovich. Times and dates TBA. There will not be a grade for this requirement; however, if you do attend both Neuro topics, your lowest quiz grade will be dropped. You must sign the attendance form and be in attendance the whole time to be counted.

Skills Checkout:
TBD

Practical Exam:
Information will be shared in class and on Blackboard.