COURSE SYLLABUS
For
PTHA 2435
Rehabilitation Techniques

CATALOGUE DESCRIPTION
Comprehensive rehabilitation of selected diseases and disorders.

CREDIT
4

CONTACT HOURS
  Lecture  3
  Lab      3

PREREQUISITES
1.  PTHA 1225, Communication in Health Care
2.  PTHA 1305, Basic Patient Care Skills
3.  PTHA 1413, Functional Anatomy

COREQUISITES
1.  PTHA 1260, Clinical
2.  PTHA 1431, Physical Agents
3.  PTHA 2201, Data Collection

INSTRUCTOR
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SEMESTER/ LOCATION/ TIME
Spring 2014
Lec: M, 9:00-11:00am, W, 9:00-10:30am, Building B, Room 140
Lab:M, 11:00am-2:30 pm, Building B, Room 139
Open Lab: T 2:30-4:00; Th 1:30-4:00pm  Building B, Room 139
PURPOSE
This course is designed so that student physical therapist assistants (PTA) will learn additional and advanced techniques, with an emphasis on neurophysiologic integration in the habilitation and rehabilitation of persons with movement disorder, at different stages of life. Additionally, students will learn principles of orthotics and prosthetics and develop skills in their fabrication.

COURSE OUTCOMES

1. Describe the physical therapy management of patients with selected diseases, and disorders.
2. Demonstrate rehabilitation techniques for diseases and disorders.
3. Demonstrate communication skills.

COURSE OBJECTIVES
On completion of this course, student PTA’s will:

1. Distinguish and critically examine the concept and principles of comprehensive management of long term pathologies. (F 8,9,10,11,13,15; C 4,5,6,7,10,11,12,13)
2. Develop, implement, and revise a comprehensive treatment approach for various long-term pathologies. (F 8,9,10,12,13; C 4,5,6,7,10,11,12,13)
3. Utilize relevant communication techniques. (F 1,2,5,6,15; C 6,7,10,13)
4. Identify the normal stages, reflexes, and ages of motor development after birth. (F 10; C 15)
5. Interpret the variations and distributions of abnormal muscle tone. (F 10; C 15)
6. Describe and discuss common congenital neurological, neuromuscular, and orthopedic deficits and treatments with demonstration. (F 10,12; C 4,5,6,7,10,11,12,13)
7. Illustrate the need for special splinting and seating needs of the pediatric population. (F 8,9,12; C 7,10,11,15,16,18,20)
8. Identify treatment techniques used in the physical therapy management of the premature infant. (F 10; C 6,10,13,18)
9. Manipulate and identify the uses of orthotics in rehabilitation: functional and corrective (F 8,9,12; C 7,10,11,15,16,18,20)
10. Demonstrate the principles of orthotic management: mobility and care of orthoses (F 9; C 11,15)
11. Determine the etiology and complications of amputation. (F 12; C 6,9,11,13,15,18,19,20)
12. Illustrate the principles of pre-prosthetic management: (F 12; C 6,9,11,13,15,18,19,20)
   a. positioning
   b. exercise principles
   c. edema control
   d. massage and hygiene
   e. mobility
13. Demonstrate the principles of prosthetic management: function and mobility (F9; C11, 15)
14. Demonstrate the clinical differences and rehabilitative techniques for the treatment of CVA versus traumatic brain injury. (F 8,9,10,12; C 11,13)
15. Demonstrate, describe and discuss common causes, rehabilitative needs, and rehabilitation techniques used in the PT management of people following spinal cord injury. (F 8,9,10,12; C 11,12,13,15)

16. Illustrate the functional significance of spinal cord lesion level. (F 8,9,10,12; C 11,12,13,15)

REQUIRED MATERIALS


METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, performances and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

ASSESSMENT OF LEARNER OUTCOMES AND OBJECTIVES

Assessment methods include, but may not be limited to: written examinations, lab practicals, skill checklists, observation of skills and professional behavior, documentation assignments, evidence based journal club, research papers, oral presentations, PTA MACS, self-assessment surveys, and clinical educators rating. Plagiarism of any assignment will result in a 0% on that assignment as well as be addressed via the program integrity policy as outlined in the student handbook.

EVALUATION

**Testing**

1. 4 Lecture Exams @ 50 points each
2. 4 Lab exams @ 50 points each **
   - Projects @ 20 points total
   - Quizzes 11@ 110 points total

TOTAL: 530 points

**Grades:**

- 90% - 100%  (477 - 530) A
- 80% - 89%  (424 - 476) B
- 75% - 79%  (398 - 423) C
- less than 75%  (0-397) F

A passing score (greater than 75%) must be obtained in both the didactic and practical...
components in order to pass this class.

Quizzes may not be made up.

If you are granted the privilege of taking either a lecture or lab exam later than the scheduled date, 10% will automatically be deducted from that test grade.

**You will be required to attend an “open lab” 60 minutes EVERY week to practice lab skills for this class. You must attend these hours in order to be eligible to successfully complete the appropriate check offs prior to each lab exam. If the required hours are not attended, you will be unable to take the practical exam, and will therefore receive a 0 (zero) for that exam.**

In order to pass the lab portion of the class, the critical safety skills must be mastered on all practicals and check-offs. If a student does not meet one critical skill for that lab exam or check off with at least a 75%, the student is required to retake that exam. If on this second attempt the skill is still not mastered, the student will be required to remediate. If on the third attempt the skill is still not mastered, the student will receive a 0 for that exam. Proficiency must be attained in the laboratory within 3 attempts. The student is not allowed to proceed until all critical skills are satisfactorily checked off. If a student cannot complete a critical skill, they fail the course, must reapply to the program and, if accepted, must repeat the course. This process verifies a student’s readiness to continue through the program and for clinicals.

Lone Star College System subscribes to Turnitin.com, an online collaborative learning tool for faculty which supports faculty in their quest to uphold academic integrity. Student coursework will be submitted to the scrutiny of the Turnitin software. Please note that these submissions of assignments to Turnitin do not necessarily constitute an accusation or suspicion of plagiarism on the student’s part.

**LAB ATTIRE**

Appropriate dress is to be worn/available for all labs, as indicated below.

**Males:** Non-denim shorts with elastic waistband, no longer than mid-thigh.

**Females:** Non-denim shorts with elastic waistband, no longer than mid-thigh; bikini / sport bra or halter-top (NOTE: for labs for back massage, a bra that opens in the back should be worn).

Both: Lycra bike or similar under shorts may be worn, but they should not extend beyond mid-thigh. Clothing is likely to be exposed to water, gels, oils and lotions. Keep this in mind when selecting your lab clothing. **NOTE:** for labs and practice with hydrotherapy (whirlpool), swimming attire should be worn.

**OTHER COURSE/CLASSROOM POLICIES**

**CONTRAINDICATIONS AND POTENTIAL HAZARDS ASSOCIATED WITH PROCEDURES APPLIED IN THIS COURSE**

Within the course, students will be asked to apply and to receive various physical therapy treatment modalities. The list below is of contraindications and potential hazards which are associated with procedures applied in the course. The students are asked to provide informed consent to participate in the course and it is the student’s responsibility to inform the instructor of
any contraindications or circumstances which may limit their full participation in these procedures both now and in the future.

Contraindications/Precautions
- Skin Disorders
- Low Back Disorders
- Cardiac Conditions
- Respiratory Conditions

ATTENDANCE EXPECTATIONS

- To do well in this course, you must attend regularly and keep up with assignments. You cannot make a satisfactory grade without studying. Since this is a 10-week semester, the course progresses very quickly -- you must discipline yourself to keep up and not fall behind. As this course uses discussion and the ability to work responsibly in a group, participation in the class discussions and activities is essential to successful completion.
- The instructor has the option to drop a student from the class after the student has accumulated absences of two or more classes, particularly if these are not excused. All absences should be explained to the instructor via phone or internet e-mail.
- The instructor will begin each class by recording the students present. If you come in 15 minutes after class has begun, you will be marked absent unless you see me after class and let me know you were there. In addition, the class may begin with
a written quiz reviewing the last sessions work. If you are late, you will receive a zero on the daily written quiz.

- All travel to field trips will be on your own. You are expected to dress in business attire or scrubs for all classes held off campus.

**NO LONGER ATTENDING CLASS DOES NOT CONSTITUTE WITHDRAWAL FROM THIS CLASS, NOR DOES A STUDENT’S NOTIFICATION TO THE INSTRUCTOR THAT THE STUDENT WISHES TO BE DROPPED. FAILURE OF A STUDENT TO FILL OUT A “SCHEDULE CHANGE FORM” TO OFFICIALLY DROP THIS CLASS MAY RESULT IN A GRADE OF “F.”**

**THE LAST DAY TO DROP THIS CLASS AND RECEIVE “W” IS ___________. AFTER THIS DATE, NO WITHDRAWALS WILL BE ISSUED.**

**LATE TESTS AND ASSIGNMENTS**

- The semester moves fast. If you have to miss class on the day of a test, you must notify me before the test. If you have contacted me regarding your absence, and have a valid reason, you may take the test in the Testing Center (ground floor, ELC) within a time limit we will agree upon. If you do not contact me before the test you missed, I will consider your absence unexcused, and you will get a zero for that test. If you don’t take the test within the agreed time limit, you will also receive a zero. Please note that if you miss the final exam, there may not be time for you to have the option of taking it late.
- No credit will be given for assigned work handed in after the due date. Exceptions may be made for serious illness/hospitalization or other tragedy. In these circumstances, written verification will be required.

**IF YOU ARE HAVING DIFFICULTY**

- Please contact me. My goal is for you to succeed.
- You will have to do the work to meet the standards of the course, but there are many college resources available to help you do this -- but you need let me know if you need help.
- My office phone number and e-mail address are listed on this syllabus.
- Also, if you have any special academic needs, please talk with me after the first class and give me a copy of your documentation.

**CLASSROOM BEHAVIOR**

- While active participation in class activities is encouraged, behavior that is disruptive and interferes with the ability of others to benefit from the education will not be tolerated.
- Students displaying disruptive behavior in a class will be asked to leave that class, and this will be considered as partial attendance.
- Repeated incidents of disruptive behavior will result in dismissal of the student from the course.
- Cell phones are to be turned off in the classroom. Two breaks will be given throughout the lecture and lab period. Please use this time to communicate via cell phone.
- Lab coats and/OR clinical attire are required for all lab practicals. If you are not dressed to impress, you will receive a zero on the practical.

**CHILDREN**

- Children are not allowed in the classroom or lab. This is for the child’s safety due to the nature of the practical work which will be performed in the classroom and lab.
- Children may not be left unattended in the college.

**ADA Statement**

Lonestar College System is dedicated to providing the least restrictive learning environment for all students. The college district promotes equity in academic access through the implementation of reasonable accommodations as required by the Vocational Rehabilitation Act of 1973, Title V, Section 504 and the Americans with Disabilities Act of 1990 (ADA) which will enable students with disabilities to participate in and benefit from all post-secondary educational programs and activities. If you require reasonable accommodations because of a physical, mental, or learning disability, please notify the instructor of this course within the first 2 weeks of the term.

**Emergency management**

Lone Star College System (LSCS) is committed to maintaining the safety of the students, faculty, staff, and guests while visiting any of our campuses. See http://www.lonestar.edu/oem for details. Register at http://www.lonestar.edu/12803.htm to receive emergency notifications. In the event of an emergency contact LSCS Police at (281) 290-5911 or X5911.

**Academic Integrity:**

The following was taken directly from The Lone Star Catalog and is consistent with the program student handbook:

“The Lone Star College System upholds the core values of learning: honesty, respect, fairness, and accountability. The system promotes the importance of personal and academic honesty. The system embraces the belief that all learners – students, faculty, staff and administrators – will act with integrity and honesty and must produce their own work and give appropriate credit to the work of others. Fabrication of sources, cheating, or unauthorized collaboration is not permitted on any work submitted within the system.

The consequences for academic dishonesty are determined by the professor, or the professor and academic dean, or the professor and chief student services officer and can include but are not limited to:

1. Having additional class requirements imposed,
2. Receiving a grade of zero or “F” for an exam or assignment,
3. Receiving a grade of “F” for the course,
4. Being withdrawn from the course or program,
5. Being expelled from the college system.
## PROPOSED CALENDAR

### Lecture and Lab topics

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<thead>
<tr>
<th>Week #</th>
<th>Dates</th>
<th>Topics</th>
<th>Text components</th>
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<tbody>
<tr>
<td>1</td>
<td>Jan 14</td>
<td>Orthotics</td>
<td>A ch 31</td>
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<td>16</td>
<td>Orthotics /Amputations</td>
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<td>21</td>
<td><strong>No Class - MLK Holiday</strong></td>
<td>A ch 25 and 32</td>
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<td>23</td>
<td>Amputations and Prosthetics</td>
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<td>28</td>
<td><strong>LECTURE/LAB EXAM 1</strong></td>
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<td>30</td>
<td>Intro to Peds</td>
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<td>4</td>
<td>Feb 4</td>
<td>motor control</td>
<td>C ch 3 and 4</td>
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<td>6</td>
<td>Normal Development</td>
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<td>5</td>
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<td>Primitive reflexes and Abnormal Development</td>
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<td>13</td>
<td>Congenital deficits and premature infants</td>
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<td><strong>LAB EXAM 2/ LECTURE EXAM 2</strong></td>
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<td>Neuroanatomy</td>
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<td>Mar 4</td>
<td>Neuroanatomy and CVA</td>
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<td>6</td>
<td>CVA</td>
<td>C ch 9 and 10</td>
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<td><strong>Spring Break- No Class</strong></td>
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<td>Traumatic Brain Injury</td>
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<td>Treatment of SCI: The Quadriplegic</td>
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### Text Key: