Course Description

PTH 242 Orthopedic Management
Lec. 4 Lab. 0 Cr. 4
Prerequisites: PTH 202, PTH 205, BIO 211, ENG 102.
Corequisites: PTH 240, PTH 252.

Course Focus

This course provides an introduction to common orthopedic dysfunction of the upper and lower extremities and gait deviations. The identification and management of these dysfunctions is presented and practiced within the context of the plan of care developed by a licensed physical therapist. Students practice concepts related to patient education, appropriate communication and documentation of patient care activities.

Text and References

Dutton, M. Orthopaedics for the Physical Therapist Assistant, 1st Ed. Sudbury: Jones and Bartlett; 2012.

Course Objectives

1. At the completion of this course, students will be able to:
2. Identify varying types and degrees of soft tissue injury, repair and management in orthopedics.
3. Identify varying types of joint, connective tissue, and bone disorders, repair and management in orthopedics.
4. Examine common surgical interventions and pre/post-operative management in orthopedics.
5. Examine common peripheral nerve disorders and management in orthopedics.
6. Relate the arthrokinematics of the peripheral joints to function.
7. Identify the kinematics and kinetics of normal gait.
10. Apply physical therapy interventions to common gait deviations.

**Course Goals**
The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. (*designates a CRUCIAL goal)

1. calculate velocity
2. calculate cadence
3. calculate CWS
4. demonstrate peripheral nerve testing
5. differentiate pain origins
6. discuss hip pathomechanics
7. discuss knee pathomechanics
8. discuss ankle pathomechanics
9. discuss shoulder pathomechanics
10. discuss elbow pathomechanics
11. discuss wrist pathomechanics
12. distinguish phases of gait
13. distinguish components of gait
14. discern causes of abnormal gait
15. handle hip overuse syndromes
16. handle knee overuse syndromes
17. handle ankle overuse syndromes
18. handle shoulder overuse syndromes
19. handle elbow overuse syndromes
20. handle wrist overuse syndromes
21. label bony landmarks
22. label ligamental structure
23. label common nerves
24. identify soft tissue lesions
25. identify joint disorders
26. identify connective tissue disorders
27. identify bone disorders
28. implement soft tissue management
29. implement joint management
30. implement connective tissue management
31. implement bone management
32. implement postural corrections
33. implement preoperative orthopedic management
34. implement postoperative orthopedic management
35. initiate gait abnormality treatment
36. know knee orthopedic surgeries
37. know hip orthopedic surgeries
38. know ankle orthopedic surgeries
39. know shoulder orthopedic surgeries
40. know elbow orthopedic surgeries
41. know wrist orthopedic surgeries
42. manage hip hypomobility
43. manage knee hypomobility
44. manage ankle hypomobility
45. manage shoulder hypomobility
46. manage elbow hypomobility
47. manage wrist hypomobility
48. recognize nerve entrapments
49. recognize post-operative complications
50. recognize surgical indications
51. recognize common gait abnormalities
52. recognize referred pain patterns
53. relate COG gait variances
54. relieve nerve entrapment
55. relate hip arthrokinematics and function
56. relate knee arthrokinematics and function
57. relate ankle arthrokinematics and function
58. relate shoulder arthrokinematics and function
59. relate elbow arthrokinematics and function
60. relate wrist arthrokinematics and function

**Student Contributions**

Course objectives will be met through lectures, observations, skills practice and small group activities utilizing various media to maximize the clinical relevance of the material presented. Selected activities will be conducted outside of regular class times and will include interactions with clinicians. These activities are required and will be scheduled in advance.

**Course Schedule**

M/W/F 1:00-3:00, Room 124

**Course Evaluation**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Unit quizzes@ 100 ea.</td>
<td>400</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td>4 Case Studies@ 25 ea</td>
<td>100</td>
</tr>
<tr>
<td>Diary</td>
<td>75</td>
</tr>
<tr>
<td>Athlete profile</td>
<td>75</td>
</tr>
<tr>
<td>6 Pre joint quizzes@ 25 ea</td>
<td>150</td>
</tr>
<tr>
<td>Total Points</td>
<td>1000</td>
</tr>
</tbody>
</table>
GRADING POLICY

| Grading scale | W      | withdraw            |
|               | WP     | withdraw with passing grade |
|               | WF     | withdraw with failing grade |
|               | I      | Incomplete           |

Grading Methodology. The final grade must be 75.00% or more in order to pass the course and progress in the program. In addition, each student must pass the final exam with a grade of 75.00% or above. If a student fails the final exam a second attempt will be given. The highest score a student can achieve on the second attempt is 75% and the final grade will be a C. Students absent from an examination or presentation will receive a “0” grade for the examination unless other arrangements are made with the individual instructor prior to the examination or presentation day or on the examination or presentation day before the test/presentation is scheduled to be given. It is the responsibility of the student to contact the appropriate instructor to arrange to make up the examination. Arrangements may be completed by telephone. If the instructor is not available, a message should be left on the instructor’s voice mail AND with another member of the faculty or administrative assistant. The instructor will decide the time and method of make-up examinations on an individual basis. Messages sent by other students are unacceptable. The student is responsible for notifying the instructor of the reason for the absence. Grades are posted on Blackboard within one week of administration of tests and examinations.

ADA STATEMENT
The Technical College of the Lowcountry provides access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the counselor for students with disabilities at (843) 525-8228 during the first ten business days of the academic term.

ATTENDANCE
1. The College’s statement of policy indicates that students must attend ninety percent of total class hours or they will be in violation of the attendance policy.
2. Students not physically attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
3. Students taking an online/internet class must sign in and communicate with the instructor within the first ten calendar days from the start of the semester to indicate attendance in the class. Students not attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
4. Reinstatement requires the signature of the division dean.
   a. In the event it becomes necessary for a student to withdraw from the course OR if a student stops attending class, it is the student’s responsibility to initiate and complete the necessary paperwork. Withdrawing from class may have consequences associated with financial aid and time to completion.
   b. When a student exceeds the allowed absences, the student is in violation of the attendance policy. The instructor MUST withdrawal the student with a grade of “W”, “WP”, or “WF”
depending on the date the student exceeded the allowed absences and the student’s progress up to the last date of attendance

or

c. under extenuating circumstances and at the discretion of the faculty member teaching the class, allow the student to continue in the class and make-up the work. This exception must be documented at the time the allowed absences are exceeded.

d. Absences are counted from the first day of class. There are no "excused" absences. All absences are counted, regardless of the reason for the absence.

5. A student must take the final exam or be excused from the final exam in order to earn a non-withdrawal grade.

6. Students are expected to be in class on time. Arrival to class after the scheduled start time or leaving class prior to dismissal counts as a tardy. Three tardies and/or early departures are considered as one absence unless stated otherwise.

7. It is the student’s responsibility to sign the roll/verify attendance with instructor upon entering the classroom. Failure to sign the roll/verify attendance results in a recorded absence. In the event of tardiness, it is the student’s responsibility to insure that attendance is marked. The student is responsible for all material/announcements presented, whether present or absent.

8. Continuity of classroom, laboratory, and clinical experiences is essential to the student’s progress in providing safe and competent patient care. Students are expected to use appropriate judgment for participating in activities. To evaluate the student’s knowledge and skills, it is necessary for the student to be present for all clinical experiences. If absence does occur for class, lab, or clinical, the designated clinical site if appropriate, and the Division of Health Sciences Administrative Assistant or class instructor must be notified by telephone no later than 30 minutes prior to the start of the clinical experience. Failure to do so can result in withdrawal from the program. The Division of Health Sciences telephone number is 843-525-8267.

A copy of TCL’s STATEMENT OF POLICY NUMBER: 3-1-307 CLASS ATTENDANCE (WITHDRAWAL) is on file in the Division Office and in the Learning Resources Center.

HAZARDOUS WEATHER

In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWVV 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLH 101.1, WSOK 1230 AM, WAEV 97.3, WTC TV, WTGS TV, WJW TV, and WSAV TV. Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. www.tcl.edu/textalert.asp

ACADEMIC MISCONDUCT

There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship.

It is the student’s responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification.
The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the *TCL Student Handbook*, the Division Office, and the Learning Resources Center.

Health care professionals hold the public trust. Academic misconduct by health science students calls that trust into question and academic integrity is expected.

It is a fundamental requirement that any work presented by students will be their own. Examples of academic misconduct include (but are not limited to):

1. copying the work of another student or allowing another student to copy working papers, printed output, electronic files, quizzes, tests, or assignments.
2. completing the work of another student or allowing another student to complete or contribute to working papers, printed output, electronic files, quizzes, tests, or assignments.
3. viewing another student’s computer screen during a quiz or examination.
4. talking or communicating with another student during a test.
5. violating procedures prescribed by the instructor to protect the integrity of a quiz, test, or assignment.
6. plagiarism in any form, including, but not limited to: copying/pasting from a website, textbook, previously submitted student work, or any instructor-prepared class material; obvious violation of any copyright-protected materials.
7. knowingly aiding a person involved in academic misconduct.
8. providing false information to staff and/or faculty.
9. entering an office unaccompanied by faculty or staff.
10. misuse of electronic devices.

**Course Coordinator:** Jennifer Culbreth  
**Office Location:** Room 125, Building 4  
**Telephone:** 843-470-5956  
**Email:** jculbreth@tcl.edu