

## Request for Graduate Course Change

1. Prepare one paper copy with all signatures and supporting material and forward to the Graduate Council Chair.
2. E-mail one identical PDF copy to the Graduate Council Chair. If attachments included, please merge into a single file.
3. **The Graduate Council cannot process this application until it has received both the PDF copy and the signed hard copy.**

College: COHP

Dept/Division: School of PT

Current Alpha Designator/Number: PT 782 Musculoskeletal II

Contact Person: Neil Evans

Phone: 6-5617

### CURRENT COURSE DATA:

Course Title: Musculoskeletal II

Alpha Designator/Number: P T 7 8 2

Title Abbreviation: M S K I I

1. Complete this **five** page form in its entirety and route through the departments/committees below for changes to a course involving: course title, alpha designator, course number, course content, credit hours, or catalog description.
2. If this change will affect other departments that require this course, please send a memo to the affected department and include it with this packet, as well as the response received from the affected department.
3. If the changes made to this course will make the course similar in title or content to another department's courses, please send a memo to the affected department and include it with this packet as well as the response received from the affected department.
4. List courses, if any, that will be deleted because of this change (*must submit course deletion form*).
5. If the faculty requirements and/or equipment need to be changed upon approval of this proposal, attach a written estimate of additional needs.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head <u><i>Penny O'Hall</i></u>	Date <u><i>3/23/15</i></u>
Registrar <u><i>Debra Ferguson</i></u>	Date <u><i>3/23/15</i></u>
College Curriculum Chair <u><i>Carmen Crevier</i></u>	Date <u><i>4/3/15</i></u>
Graduate Council Chair _____	Date _____

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Dept/Division: School of PT

Current Alpha Designator/Number: PT 782 Musculoskeletal II

Contact Person: Neil Evans

Phone: 6-5617

### CURRENT COURSE DATA:

Course Title: Musculoskeletal II

Alpha Designator/Number:

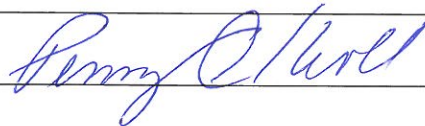

P	T		7	8	2				
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Title Abbreviation:

M	S	K		I	I														
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1. Complete this **five** page form in its entirety and route through the departments/committees below for changes to a course involving: course title, alpha designator, course number, course content, credit hours, or catalog description.
2. If this change will affect other departments that require this course, please send a memo to the affected department and include it with this packet, as well as the response received from the affected department.
3. If the changes made to this course will make the course similar in title or content to another department's courses, please send a memo to the affected department and include it with this packet as well as the response received from the affected department.
4. List courses, if any, that will be deleted because of this change (*must submit course deletion form*).
5. If the faculty requirements and/or equipment need to be changed upon approval of this proposal, attach a written estimate of additional needs.

Signatures: if disapproved at any level, do not sign. Return to previous signer with recommendation attached.

Dept. Chair/Division Head <u></u>	Date <u>3/23/15</u>
Registrar <u></u>	Date <u>3/23/15</u>
College Curriculum Chair _____	Date _____
Graduate Council Chair _____	Date _____

## Request for Graduate Course Change - Page 2

College: COHP

Department/Division: School of PT

Alpha Designator/Number: PT 782

Provide complete information regarding the course change for each topic listed below.

Change in CATALOG TITLE: ☐ YES ☒ NO

From 



 (limited to 30 characters and spaces)

To

If Yes, Rationale



Change in COURSE ALPHA DESIGNATOR:

From: 



 To: 



☐ YES ☒ NO

If Yes, Rationale



Change in COURSE NUMBER: ☐ YES ☒ NO

From: 



 To:

If Yes, Rationale



Change in COURSE GRADING

From ☐ Grade To ☐ Credit/No Credit

Rationale

No Change

Change in CATALOG DESCRIPTION: ☒ YES ☐ NO IF YES, fill in below:

From Principles of orthopaedic medicine with overview of etiology, diagnosis, and surgical management, and physical therapy examination, evaluation, diagnosis and treatment of various spine, head and neck dysfunctions.

To Advanced concepts of musculoskeletal examination, evaluation, diagnosis and treatment of the extremities and spine will be covered. An evidence-informed/clinical reasoning-based manual therapy approach will be used including mobilization and manipulation

If Yes Rationale Firstly, the term "advanced" distinguishes it from PT 781 MSK I. Secondly the addition of extremities and the manual therapy emphasis should help to clarify the course.

## Request for Graduate Course Change - Page 3

Change in COURSE CREDIT HOURS: ☒ YES ☐ NO If YES, fill in below:

NOTE: If credit hours increase/decrease, please provide documentation that specifies the adjusted work requirements.

From 3

To 4, This course emphasizes manual therapy which is a very kinesthetic skill that requires numerous hours of practice with appropriate feedback from instructors. Therefore, this course promises to be lab intensive component that needs an extra credit hour to justify its demands. Additionally, advanced techniques are being added from extremities into this course.

Change in COURSE CONTENT: ☒ YES ☐ NO

From The course currently contains musculoskeletal exam, evaluation and intervention of the spine only.

To The new course would include advanced skills in the examination, evaluation, and intervention of both peripheral joints and spine. There is also a greater emphasis in manual therapy approaches that was not clearly defined in the previous course content. These changes should also be considered with PT 781 Musculoskeletal I and PT 789 Musculoskeletal III (new course).

Rationale After teaching these classes for one round, the course coordinator feels that it is too difficult for students to properly perform manual techniques with a limited amount of experience. Additionally, when students are initially exposed to regional evaluation it is too difficult to also learn more advanced evaluation and intervention skills. This change when considered with PT 781 MSK I will allow students to have been exposed to introductory evaluation concepts prior to the expectation of more advanced techniques. The additional course that is being proposed PT 789 MSK III will then be able to cover unique patient populations and assist students in synthesizing all of there knowledge.

## Request for Graduate Course Change-Page 4

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College: COHP \_\_\_\_\_

Department: School of Physical Therapy \_\_\_\_\_

Course Number/Title PT 782 Musculoskeletal I I \_\_\_\_\_

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1. REQUIRED COURSE: If this course is required by another department(s), identify it/them by name and attach the written notification you sent to them announcing to them the proposed change and any response received. Enter NOT APPLICABLE if not applicable.

NOT APPLICABLE

2. COURSE DELETION: List any courses that will be deleted because of this change. A *Course Deletion* form is also required. Enter NOT APPLICABLE if not applicable.

NOT APPLICABLE

3. ADDITIONAL RESOURCE REQUIREMENTS: If your department requires additional faculty, equipment, or specialized materials as a result of this change, attach an estimate of the time and cost etc. required to secure these items. (NOTE: approval of this form does not imply approval for additional resources. Enter NOT APPLICABLE if not applicable.

NOT APPLICABLE

## Request for Graduate Course Change - Page 5

Please insert in the text box below your course change summary information for the Graduate Council agenda. Please enter the information exactly in this way (including headings) based on the appropriate change:

### COURSE DESCRIPTION CHANGE

Department:

Course Number and Title:

Rationale:

Course Description (old)

Course Description: (new)

Catalog Description:

### COURSE NUMBER CHANGE

Department:

Current Course Number/Title:

New Course Number:

Rationale:

Catalog Description:

Credit hours:

### COURSE TITLE CHANGE

Department:

Current Course Number/Title:

New Course Title:

Rationale:

Catalog Description:

### COURSE DESCRIPTION CHANGE & CREDIT HOUR CHANGE

Department:

School of Physical Therapy

Course Number and Title:

PT 782 Musculoskeletal II

Rationale:

Firstly, the term "advanced" distinguishes it from PT 781 MSK I. Secondly the addition of extremities and the manual therapy emphasis should help to clarify the course.

Course Description (old)

Principles of orthopaedic medicine with overview of etiology, diagnosis, and surgical management, and physical therapy examination, evaluation, diagnosis and treatment of various spine, head and neck dysfunctions

Course Description: (new)

Advanced concepts of musculoskeletal examination, evaluation, diagnosis and treatment of the extremities and spine will be covered. An evidence-informed/clinical reasoning-based manual therapy approach will be used including mobilization and manipulation.

Credit hours:

4

Catalog Description:

Advanced concepts of musculoskeletal examination, evaluation, diagnosis and treatment of the extremities and spine will be covered. An evidence-informed/clinical reasoning-based manual therapy approach will be used including mobilization and manipulation.



New

**PT 782: Musculoskeletal II  
Summer 2016**

Course Title/Number	<b>Musculoskeletal I / PT 782</b>
Semester/Year	<b>Summer 2016</b>
Days/Time	
Location	<b>SOPT Room 113</b>
Instructor	Jim Dauber, PT, DPT, DSc, OCS, SCS
Office	SOPT Room 132
Phone	(304) 696-5609
E-Mail	dauber@marshall.edu
Office Hours	By Appointment or walk-in
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to <a href="http://www.marshall.edu/academic-affairs">www.marshall.edu/academic-affairs</a> and clicking on "Marshall University Policies." Or, you can access the policies directly by going to <a href="http://www.marshall.edu/academic-affairs/?page_id=802">http://www.marshall.edu/academic-affairs/?page_id=802</a> Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

**\*Course Description**

Advanced concepts of musculoskeletal examination, evaluation, diagnosis and treatment of the extremities and spine will be covered. An evidence-informed/clinical reasoning-based manual therapy approach will be used including mobilization and manipulation.

**Credit Hours:** 4

**Clock Hours:** 9 hours/week

Prerequisites/Co-requisites: The student must have successfully completed all prior curricular course work

**\*Required Text, Additional Reading, and Other Materials**

Banks K, Hengeveld E. Maitland's Clinical Companion; An Essential Guide for Students. Churchill Livingstone Elsevier 2010: Philadelphia, PA

**Appropriate dress for labs.** Allow exposure of the area being studied as well as region above and below. Lack of appropriate clothing for a lab will be considered non-participation.

**Recommended Materials:** None

**Computer Requirements**

Students must have access to internet for research of evidence, and Blackboard to access course

documents, notes, and other materials.

### **Program's Student Learning Outcomes**

**Upon completion of the DPT in Physical Therapy, students will be able to:** Apply to take the National Physical Therapy Examination in order to become licensed to practice Physical Therapy in the US.

**The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.**

<b>Course Student Learning Outcomes</b>	<b>Students will gain practice to achieve the learning outcome through:</b>	<b>Students will be assessed using the following methods:</b>
1. Identify and describe, orally and in writing, the advanced philosophical tenets underlying a scientific approach to the prevention, evaluation and management of patients, across the lifespan, with musculoskeletal pathology and dysfunction, and the legal and regulatory tenets that direct physical therapy practice. CC-5.20; CC-5.43.	Assigned Readings Lecture Case Assignments	✓ Quizzes ✓ Examinations ✓ Case Assignments
2. Select, administer and interpret results of specific advanced, manual therapy-based examination procedures in the physical therapy management of patients with musculoskeletal pathology and dysfunction of the spine and extremities. CC-5.28, CC-5.29, CC-5.30. a. Utilizing peer-reviewed literature, discuss, orally and in writing, the reliability and validity of selected examination procedures, and provide the scientific rationale for selection and interpretation of specific examination procedures in the evaluation of patients with axial and peripheral musculoskeletal dysfunction. CC-5.20; CC-5.21; CC-5.22; b. Demonstrate effective skills in applying appropriate examination procedures.	Assigned Readings Lecture Laboratory Practice Case Assignments	✓ Quizzes ✓ Examinations ✓ Case Assignments ✓ Lab Check offs
3. Appropriately evaluate data obtained from all aspects of the examination, (history, systems review, and test and measures) and other medical test and measures results (such as medical imaging studies and reports), as well as "best evidence" available, and determine a diagnosis that guides patient management in patients with axial and peripheral dysfunction. CC-5.23; CC 5.31; CC 5.32 a. Recognize presence of "red flags" during screening, understand appropriate mechanism involved, and determine when to treat, refer, or treat and refer. CC-5.27 b. Be prepared for patient and environmental emergencies in various practice settings. CC-5.44	Assigned Readings Lecture Case Assignments	✓ Quizzes ✓ Examinations ✓ Case Assignments
4. Utilizing evaluation results, diagnosis, and other factors such as psychosocial, socioeconomic, and life span considerations, determine a prognosis. CC 5.33	Assigned Readings Lecture Case Assignments	✓ Quizzes ✓ Examinations ✓ Case Assignments



Course Student Learning Outcomes	Students will gain practice to achieve the learning outcome through:	Students will be assessed using the following methods:
<p>5. With consideration for legal, ethical and professional obligation and administrative policy and procedures, develop an appropriate, safe and effective patient-centered plan of care that takes into consideration the patient's psychosocial and socioeconomic circumstances. CC-5.34, CC-5.35, CC-5.36 CC 5.57</p> <p>a. Establish appropriate reevaluation times, monitor patient's status, and utilizing analysis of data collected from patient outcome measures, recognize changes in patient's status that might require change in plan of care. CC 5.38; CC 5.48</p>	<p>Assigned Reading Lecture Case Assignments</p>	<p>✓ Quizzes ✓ Examinations ✓ Case Assignment</p>
<p>6. Considering psychosocial, socioeconomic circumstances and life span considerations of the patient, and resources available, apply sound advanced clinical reasoning to establish time sensitive, achievable, patient center goals and outline reliable and valid, measurable, appropriate outcomes to determine treatment success in the patient with musculoskeletal dysfunction of the upper and lower quadrant. CC- 5.19; CC-5.36; CC-5.45; CC-5.47; 5.47; 5.49</p>	<p>Assigned Readings Lecture Case Assignments</p>	<p>✓ Quizzes ✓ Examinations ✓ Case Assignment</p>
<p>7. Using evidence such as current peer-reviewed literature and sound clinical reasoning to defend the choice of intervention, select and safely administer appropriate advanced interventions (manual therapy techniques, functional training, home programs, patient education) to achieve the established goals and outcomes developed for the patient with musculoskeletal dysfunction. CC-5.20; CC-5.21; CC.5.22;</p> <p>a. Discuss, orally and in writing, the scientific rationale underlying your choice of therapeutic interventions for the patient with musculoskeletal pathology and dysfunction across the lifespan. (CC 5.20, 5.23)</p> <p>b. Demonstrate effective skills in applying appropriate advanced manual intervention techniques: (Mobilization/manipulation thrust and non-thrust techniques). CC-5.39</p> <p>c. Considering the patient's, diagnosis, prognosis, plan of care and needs, determine those components of intervention that may be directed to the PTA. Consider PTA's abilities, jurisdictional law, and practice guidelines, policies, codes of ethics, and facility policy. CC-5.40</p>	<p>Assigned Readings Lecture Case Assignments Laboratory Practice</p>	<p>✓ Quizzes ✓ Examinations ✓ Case Assignment ✓ Lab Check offs</p>
<p>8. Taking into consideration professional guidelines,</p>	<p>Assigned Readings</p>	<p>✓ Quizzes</p>

Course Student Learning Outcomes	Students will gain practice to achieve the learning outcome through:	Students will be assessed using the following methods:
<p>guidelines required by health care systems and particular practice settings, in a timely, effective manner, complete documentation that includes:</p> <ol style="list-style-type: none"> <li>Examination, evaluation, diagnosis, prognosis, patient plan, including goals/outcomes, interventions. CC-5.42</li> <li>Documentation of discussion of all aspects of discharge planning with patient with musculoskeletal pathology and dysfunction including: CC-5.42</li> <li>Provision of a home exercise program for the purpose of therapeutic progression or maintenance of therapeutic gains (consider patient age in doing so). (CC 5.34-38, 5.41)</li> <li>Review of home and work environment, with suggestion for accommodations, as necessary (CC 5.39c)</li> <li>Provision of any orthotic, assistive or adaptive equipment necessary for patient safety and function. (CC 5.39e)</li> <li>Patient and family/caretaker education and training (consider patient age in doing so). (CC 5.17-18, 5.26)</li> <li>Referral to the appropriate health care professional for post-discharge follow-up. CC-5.27</li> </ol>	<p>Lecture Case Assignments</p>	<p>✓ Examinations ✓ Case Assignment</p>
<p>9. Demonstrate profession demeanor, cultural competence, and effective communications and/or teaching skills, orally and in writing, and consider patient needs, legal requirements, and practice guides/policies and guidelines. CC 5.17-18; CC 5.26, 5.40-43</p> <ol style="list-style-type: none"> <li>When educating the patient and family regarding prognosis, goals and outcomes determined, and plan of care including home program (consider patient age in doing so). CC-5.18; 5.34, 5.41</li> <li>When interacting with other health professionals caring for the patient such as physical therapist assistants, and other health professionals (physicians, nurses and other medical personnel) (CC 5.11, 5.17, 5.40-41)</li> <li>When dealing with third-party payers and other health care administrators. CC-5.17, 5.56)</li> </ol>	<p>Assigned Readings Lecture Case Assignments</p>	<p>✓ Quizzes ✓ Examinations ✓ Case Assignment</p>

### Instructional Methods:

Lecture, Video, In-class discussions, Laboratory Practice, Case Assignments

### \*Course Assessment and Grading

Quizzes (4 @ 5% each)	20%	<b>Grading Criteria:</b>	
Group project	25%	89.50 – 100	A
Challenges (2 @ 10% each)	20%	79.50- 89.49	B
Final Exam	35%	69.50-79	C
Total	100%	<69.50	F

**\*Attendance Policy:**

The Department policy on attendance will apply.

**Academic Dishonesty Policy:** All students should be familiar with the university's policy concerning academic dishonesty. This policy can be found on pp. 61 – 64 in the spring 2010 online graduate catalog [http://www.marshall.edu/catalog/Graduate/S2010/gr\\_sp10\\_final.pdf](http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf).

**Policy for Students with Disabilities:** Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 117, phone 304-696-2271.

**University Computing Services' Acceptable Use Policy:** All students are responsible for knowing this policy, which can be found on the web at <http://www.marshall.edu/ucs/CS/acceptuse.asp>.

**Affirmative Action Policy:** This course will follow Marshall University's policy on Affirmative Action, which can be found on p. 16 of the spring 2010 graduate catalog [http://www.marshall.edu/catalog/Graduate/S2010/gr\\_sp10\\_final.pdf](http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf). Specifically, all students will be afforded equal opportunity without regard to race, color, sex, religion, age, disability, national origin, or sexual orientation.

**Inclement Weather Policy:** Students can find information concerning Marshall's policy regarding inclement weather on pp. 21 – 23 of the spring 2010 graduate catalog [http://www.marshall.edu/catalog/Graduate/S2010/gr\\_sp10\\_final.pdf](http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf).

For more information on Marshall University Policies and procedures, please visit: [http://www.marshall.edu/assessment/Syllabus%20Information/University\\_Policies.doc](http://www.marshall.edu/assessment/Syllabus%20Information/University_Policies.doc).

**Fair Use of Copyrighted Works:**

The instructor(s) may use some works that are copyrighted by the publisher, original author, or other sources. These works are provided to students under the Educational Fair Use provision of Title 17 of the US Code and are not to be shared with individuals who are not enrolled in this course.

Student's successful completion of this class will be determined by the performance on quizzes, written examinations, Case assignments, and In-class Discussion. Quizzes and Examinations will consist of objective "type" questions that will evaluate the knowledge of the material that has been covered in class. The in-class discussion and Case Assignments will allow students to gain a more in-depth knowledge and application of specific selected pathologies of the Musculoskeletal System. The Tentative Course Schedule is as follows:

DATE	MATERIAL COVERED	Assigned Readings	Assessment
Week 1	Key Concepts: manual therapy Lumbar/Sacrum		
Week 2	Hip		
Week 3	Knee		
Week 4	Foot/ankle		
Week 5	Cervical		
Week 6	Thoracic		
Week 7	Temporomandibular Joint		
Week 8	Shoulder		
Week 9	Elbow		
Week 10	Hand/wrist		

Old

**PT 782 Musculoskeletal II  
Fall 2014**

Course Title/Number	<b>Musculoskeletal II / PT 782</b>
Semester/Year	<b>Fall 2014</b>
Days/Time	<b>Tuesday/ Thursday Time: 9AM-12PM</b>
Location	<b>SOPT Room 113</b>
Instructor	Jim Dauber, DPT, DSc, OCS, SCS
Office	SOPT Room 132
Phone	(304) 696-5609
E-Mail	dauber@marshall.edu
Office Hours	Monday 1-3 PM Wednesday 1-3PM Or by appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to <a href="http://www.marshall.edu/academic-affairs">www.marshall.edu/academic-affairs</a> and clicking on "Marshall University Policies." Or, you can access the policies directly by going to <a href="http://www.marshall.edu/academic-affairs/?page_id=802">http://www.marshall.edu/academic-affairs/?page_id=802</a> Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

**Course Description**

Principles of orthopaedic medicine with overview of etiology, diagnosis, surgical management, and physical therapy examination, evaluation, diagnosis and treatment of various spine, head and neck dysfunctions.

**Credit Hours:** 3

**Clock Hours:** 6 hours per week

Prerequisites/Co-requisites: The student must have successfully completed all prior curricular course work

**Required Text, Additional Reading, and Other Materials**



Cook CE, Hegedus EJ. Orthopedic Physical Examination Tests; An Evidence-Based Approach 2<sup>nd</sup> Ed. Pearson 2013: Upper Saddle River, NJ.

Banks K, Hengeveld E. Maitland's Clinical Companion; An Essential Guide for Students. Churchill Livingstone Elsevier 2010: Philadelphia, PA

**Appropriate dress for labs.** Allow exposure of the area being studied as well as region above and below. Lack of appropriate clothing for a lab will be considered non-participation.

**Recommended Materials:** None

### **Computer Requirements**

Students must have access to internet for research of evidence, and Blackboard to access course documents, notes, and other materials.

### **Program's Student Learning Outcomes**

**Upon completion of the DPT in Physical Therapy, students will be able to:** Apply to take the National Physical Therapy Examination in order to become licensed to practice Physical Therapy in the US.

**The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.**

<b>Course Student Learning Outcomes</b>	<b>Students will gain practice to achieve the learning outcome through:</b>	<b>Students will be assessed using the following methods:</b>
1. Identify and describe, orally and in writing, the basic philosophical tenets underlying a scientific approach to the prevention, evaluation and management of patients, across the lifespan, with musculoskeletal pathology and dysfunction, and the legal and regulatory tenets that direct physical therapy practice. CC-5.20; CC-5.43.	Assigned Readings Lecture Case Assignments	✓ Examinations ✓ Case Assignments

<b>Course Student Learning Outcomes</b>	<b>Students will gain practice to achieve the learning outcome through:</b>	<b>Students will be assessed using the following methods:</b>
<p>2. Select, administer and interpret results of specific examination procedures in the physical therapy management of patients with musculoskeletal pathology and dysfunction of the cervical, thoracic, lumbar, sacroiliac spine and TMJ. CC-5.28-5.30.</p> <p>a) Utilizing peer-reviewed literature, discuss, orally and in writing, the reliability and validity of selected examination procedures, and provide the scientific rationale for selection and interpretation of specific examination procedures in the evaluation of patients with cervical, thoracic, lumbar, sacroiliac spine and TMJ musculoskeletal dysfunction. CC-5.20; CC-5.21; CC-5.22;</p> <p>b) Demonstrate effective skills in applying appropriate examination procedures.</p>	<p>Assigned Readings Lecture Laboratory Practice Case Assignments</p>	<p>✓ Examinations ✓ Case Assignments ✓ Lab Check offs</p>
<p>3. Appropriately evaluate data obtained from all aspects of the examination, (history, systems review, and test and measures) and other medical test and measures results (such as medical imaging studies and reports), as well as "best evidence" available, and determine a diagnosis that guides patient management in patients cervical, thoracic, lumbar, sacroiliac spine and TMJ dysfunction. CC-5.23; CC 5.31; CC 5.32</p> <p>a) Recognize presence of "red flags" during screening, understand appropriate mechanism involved, and determine when to treat, refer, or treat and refer. CC-5.27</p> <p>b) Be prepared for patient and environmental emergencies in various practice settings. CC-5.44</p>	<p>Assigned Readings Lecture Case Assignments</p>	<p>✓ Examinations ✓ Case Assignments</p>
<p>4. Discuss, orally and in writing, the integration of laboratory and imaging techniques guiding the determination of a differential PT diagnosis of the musculoskeletal system dysfunction. (CC 1, 3)</p>	<p>Assigned Readings Lecture Case Assignments</p>	<p>✓ Examinations ✓ Case Assignments</p>

<b>Course Student Learning Outcomes</b>	<b>Students will gain practice to achieve the learning outcome through:</b>	<b>Students will be assessed using the following methods:</b>
5. Utilizing evaluation results, diagnosis, and other factors such as psychosocial, socioeconomic, and life span considerations, determine a prognosis. CC 5.33	Assigned Readings Lecture Case Assignments	✓ Examinations ✓ Case Assignments
6. With consideration for legal, ethical and professional obligation and administrative policy and procedures, develop an appropriate, safe and effective patient-centered plan of care that takes into consideration the patient's psychosocial and socioeconomic circumstances. CC-5.34, CC-5.35, CC-5.36 CC 5.57 a) Establish appropriate reevaluation times, monitor patient's status, and utilizing analysis of data collected from patient outcome measures, recognize changes in patient's status that might require change in plan of care. CC 5.38; CC 5.48	Assigned Reading Lecture Case Assignments	✓ Examinations ✓ Case Assignment
7. Considering psychosocial, socioeconomic circumstances and life span considerations of the patient, and resources available, apply sound clinical reasoning to establish time sensitive, achievable, patient center goals and outline reliable and valid, measurable, appropriate outcomes to determine treatment success in the patient with musculoskeletal dysfunction of the cervical, thoracic, lumbar, sacroiliac spine and TMJ. CC- 5.19; CC-5.36; CC- 5.45; CC-5.47; 5.49	Assigned Readings Lecture Case Assignments	✓ Examinations ✓ Case Assignment
8. Describe, orally and in writing, medical, pharmacological, and surgical interventions utilized in the management of patients with cervical, thoracic, lumbar, sacroiliac spine and TMJ musculoskeletal pathologies who are commonly seen by physical therapists. (CC 1, 3)	Assigned Readings Lecture Case Assignments	✓ Examinations ✓ Case Assignment
9. Using evidence such as current peer-reviewed literature and sound clinical reasoning to defend the choice of intervention, select and safely administer appropriate interventions (modalities-heat, cold, electrical, traction, water, exercise, manual therapy techniques, functional training, home programs, patient education) to achieve the established goals and outcomes developed for the patient	Assigned Readings Lecture Case Assignments Laboratory Practice	✓ Examinations ✓ Case Assignment ✓ Lab Check offs

Course Student Learning Outcomes	Students will gain practice to achieve the learning outcome through:	Students will be assessed using the following methods:
<p>with musculoskeletal dysfunction. CC-5.20; CC-5.21; CC.5.22;</p> <ul style="list-style-type: none"> <li>a) Discuss, orally and in writing, the scientific rationale underlying your choice of therapeutic interventions for the patient with musculoskeletal pathology and dysfunction across the lifespan. (CC 1,3)</li> <li>b) Demonstrate effective skills in applying appropriate intervention techniques: Therapeutic exercise, functional training in self-care and home management, and at the worksite, manual therapy techniques (Mobilization/manipulation thrust and non-thrust techniques), prescription, application, and as appropriate, fabrication of devices and equipment, electrotherapeutic modalities, &amp; physical agents and mechanical modalities. CC-5.39</li> <li>c) Considering the patient's, diagnosis, prognosis, plan of care and needs, determine those components of intervention that may be directed to the PTA. Consider PTA's abilities, jurisdictional law, and practice guidelines, policies, codes of ethics, and facility policy. CC-5.40</li> </ul>		
<p>10. Taking into consideration professional guidelines, guidelines required by health care systems and particular practice settings, in a timely, effective manner, complete documentation that includes:</p> <ul style="list-style-type: none"> <li>a) Examination, evaluation, diagnosis, prognosis, patient plan, including goals/outcomes, interventions. CC-5.42</li> <li>b) Documentation of discussion of all aspects of discharge planning with patient with musculoskeletal pathology and dysfunction including: CC-5.42 <ul style="list-style-type: none"> <li>i. provision of a home exercise program for the purpose of therapeutic progression or maintenance of therapeutic gains (consider patient age in doing so).</li> </ul> </li> <li>c) review of home and work environment, with suggestion for accommodations, as necessary</li> <li>d) provision of any orthotic, assistive or adaptive equipment necessary for patient safety and function.</li> <li>e) patient and family/caretaker education and training (consider patient age in doing so).</li> </ul>	<p>Assigned Readings Lecture Case Assignments</p>	<ul style="list-style-type: none"> <li>✓ Examinations</li> <li>✓ Case Assignment</li> </ul>

Course Student Learning Outcomes	Students will gain practice to achieve the learning outcome through:	Students will be assessed using the following methods:
f) referral to the appropriate health care professional for post-discharge follow-up. CC-5.27		
11. Demonstrate profession demeanor, cultural competence, and effective communications and/or teaching skills, orally and in writing, and consider patient needs, legal requirements, and practice guides/policies and guidelines. CC 5.17; CC-5.26 a) When educating the patient and family regarding prognosis, goals and outcomes determined, and plan of care including home program (consider patient age in doing so). CC-5.18; CC-5.41 b) When interacting with other health professionals caring for the patient such as physical therapist assistants, and other health professionals (physicians, nurses and other medical personnel) CC 5.41 c) When dealing with third-party payers and other health care administrators. CC-5-56	Assigned Readings Lecture Case Assignments	✓ Examinations ✓ Case Assignment

### **Instructional Methods:**

Assigned Readings, Lecture, Laboratory practice, Discussions, Case assignments

### **\*Course Assessment and Grading**

		<b>Grading Criteria:</b>	
ROEs (Quizzes)	20%	89.50 – 100	A
Challenges	20%	79.50- 89.49	B
Midterm	30%	69.50-79.49	C
Final	30%	<69.49	F
Total	100%		

### **\*Attendance Policy:**

The Department policy on attendance will apply.

**Academic Dishonesty Policy:** All students should be familiar with the university's policy concerning



academic dishonesty. This policy can be found on pp. 61 – 64 in the spring 2010 online graduate catalog [http://www.marshall.edu/catalog/Graduate/S2010/gr\\_sp10\\_final.pdf](http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf).

**Policy for Students with Disabilities:** Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271 to provide documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit <http://www.marshall.edu/disabled> or contact Disabled Student Services Office at Prichard Hall 117, phone 304-696-2271.

**University Computing Services' Acceptable Use Policy:** All students are responsible for knowing this policy, which can be found on the web at <http://www.marshall.edu/ucs/CS/acceptuse.asp>.

**Affirmative Action Policy:** This course will follow Marshall University's policy on Affirmative Action, which can be found on p. 16 of the spring 2010 graduate catalog [http://www.marshall.edu/catalog/Graduate/S2010/gr\\_sp10\\_final.pdf](http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf). Specifically, all students will be afforded equal opportunity without regard to race, color, sex, religion, age, disability, national origin, or sexual orientation.

**Inclement Weather Policy:** Students can find information concerning Marshall's policy regarding inclement weather on pp. 21 – 23 of the spring 2010 graduate catalog [http://www.marshall.edu/catalog/Graduate/S2010/gr\\_sp10\\_final.pdf](http://www.marshall.edu/catalog/Graduate/S2010/gr_sp10_final.pdf).

For more information on Marshall University Policies and procedures, please visit: [http://www.marshall.edu/assessment/Syllabus%20Information/University\\_Policies.doc](http://www.marshall.edu/assessment/Syllabus%20Information/University_Policies.doc).

**\*Course Outline, including due dates for major projects:** The following topics will be covered.

### **Fair Use of Copyrighted Works:**

Please note that the instructor may use some works that are copyrighted by the publisher or original author. These works are provided to students under the Educational Fair Use provision of Title 17 of the US Code and are not to be shared with individuals who are not enrolled in this course.

Student's successful completion of this class will be determined by the performance on quizzes, written examinations, Case assignments, and In-class Discussion. Quizzes and Examinations will consist of objective "type" questions that will evaluate the knowledge of the material that has been covered in class. The in-class discussion and Case Assignments will allow students to gain a more in-depth knowledge and application of specific selected pathologies of the Musculoskeletal System. The Tentative Course Schedule is as follows:

DATE	MATERIAL COVERED	Assigned Readings	Assessment
10-14-14	Lumbosacral Pathology/Medical Screening / Assessment	Lumbar medical screening lecture video. Mosely pain video	
10-16-14	Lumbosacral Lab #1	Banks: 441-444; 465-469; 476-478; 480; 484-485; 488-495	CASE #1: Lumbosacral
10-21-14	Lumbosacral Lab #2		
10-23-14	Skills check-off/Practical		Skills Check-Off
10-28-14			MIDTERM EXAM
10-30-14	Cervical Medical Screening / Assessment	Cervical medical screening lecture video.	
11-4-14	Cervical Lab #1	Banks: 204-207	Case #2: Cervical
11-6-14	Cervical Lab #2		
11-11-14	Thoracic/Rib Pathology / Medical Screening / Assessment	Thoracic medical screening lecture video	
11-13-14	Thoracic Lab #1	Banks: 413-418	CASE #3: Thoracic
11-18-14	Thoracic Lab #2		
11-20-14	Tempomandibular Joint Assessment/ Pathology/Intervention/Lab	Banks: 224-230	
11-25-13	Final Exam		Final Exam
11-27-14	THANKSGIVING		
12-2-14	Skills check-off/Practical		Skills Check-Off