COLLEGE OF CHARLESTON
ATEP 345 ATHLETIC INJURY EVALUATION I (3 credits)
SPRING 2015

Final Exam Date: Friday May 1, 2015 8:00-11:00 AM

Meeting Time: Lecture: MWF 9:00-9:50 AM
Meeting Location: Silcox Center, Room 146
Instructor: Michelle M. McLeod, PhD, ATC, PES, Assistant Professor,
          Department of Health and Human Performance
Office Location: 314 Silcox Center
Office Hours: MWF 10-11 AM or by appointment. Please note that office hours are tentative.
Office Phone: 843.953.3047
Email: mcleodmm@cofc.edu
Class On-line Management System: Hosted by OAKS
Prerequisites: ATEP 245
Co-requisites: ATEP 345L

Course Description:
This course focuses on the assessment of athletic injuries occurring to the extremities of the human body. Pathologies, mechanisms and characteristics of athletic injuries commonly occurring to the joints of the human extremities will be discussed. Emphasis will be placed on the components of the comprehensive orthopedic physical examination (including: history, inspection, palpation, functional testing, and special evaluation techniques). The co-requisite laboratory course is designed to develop the student's psychomotor skills of orthopedic examination and assessment.

Learning Objectives: The content of this course will in part or completely cover the following competencies from the 5th edition of the NATA Educational Competencies. Therefore, upon successful completion of this course, the student should be able to:
1. demonstrate the ability to perform scene, primary, and secondary surveys. (AC-4)
2. obtain a medical history appropriate for the patient’s ability to respond. (AC-5)
3. identify the common congenital and acquired risk factors and causes of musculoskeletal injuries and common illnesses that may influence physical activity in pediatric, adolescent, adult, and aging populations. (CE-3)
4. describe the principles and concepts of body movement, including normal osteokinematics and arthrokinematics. (CE-4)
5. describe the influence of pathomechanics on function. (CE-5)
6. describe the basic principles of diagnostic imaging and testing and their role in the diagnostic process. (CE-6)
7. identify the patient’s participation restrictions (disabilities) and activity limitations (functional limitations) to determine the impact of the condition on the patient’s life. (CE-7)
8. explain the role and importance of functional outcome measures in clinical practice and patient health-related quality of life. (CE-8)
9. identify functional and patient-centered quality of life outcome measures appropriate for use in athletic training practice. (CE-9)
10. explain diagnostic accuracy concepts including reliability, sensitivity, specificity, likelihood ratios, prediction values, pre-test and post-test probabilities in the selection and interpretation of physical examination and diagnostic procedures. (CE-10)
11. explain the creation of clinical prediction rules in the diagnosis and prognosis of various clinical conditions. (CE-11)
12. apply clinical prediction rules (eg: Ottawa Ankle Rules) during clinical examination procedures. (CE-12)
13. obtain a thorough medical history that includes the pertinent past medical history, underlying systemic disease, use of medications, the patient’s perceived pain, and the history and course of the present condition. (CE-13)
14. differentiate between an initial injury evaluation and follow-up/reassessment as a means to evaluate the efficacy of the patient’s treatment/rehabilitation program, and make modifications to the patient’s program as needed. (CE-14)
15. demonstrate the ability to modify the diagnostic examination process according to the demands of the situation and patient responses. (CE-15)
16. recognize the signs and symptoms of catastrophic and emergent conditions and demonstrate appropriate referral decisions. (CE-16)
17. use clinical reasoning skills to formulate an appropriate clinical diagnosis for common illness/disease and orthopedic injuries/conditions. (CE-17)
18. incorporate the concepts of differential diagnosis into the examination process. (CE-18)
19. use standard techniques and procedures for the clinical examination of common injuries, conditions, illnesses, and diseases, including but not limited to history taking, inspection/observation, palpation, functional assessment, selective tissue testing techniques/special tests. (CE-20a-e)
20. assess and interpret findings from a physical examination that is based on the patient’s clinical presentation. The exam can include: assessment of posture, gait, and movement patterns, palpation, muscle function assessment, assessment of quantity and quality of osteokinematic joint motion, capsular and ligamentous stress testing, joint play (arthrokinematics), selective tissue examination techniques, and dermatological assessment. (CE-21a-g,o)
21. determine when the findings of an examination warrant referral of the patient. (CE-22)
22. define evidence-based practice as it relates to athletic training clinical practice. (EBP-1)
23. explain the role of evidence in the clinical decision making process. (EBP-2)
24. apply and interpret clinical outcomes to assess patient status, progress, and change using psychometrically sound outcome instruments. (EBP-14)
25. specify when referral of a client/patient to another healthcare provider is warranted and formulate and implement strategies to facilitate that referral. (PD-9)
26. identify modifiable/non-modifiable risk factors and mechanism for injury and illness. (PHP-3)
27. provide appropriate education regarding the condition and plan of care to the patient and appropriately discuss with others as needed and as appropriate to protect patient privacy. (PS-18)
28. compare and contrast the variations in the physiological response to injury and healing across the lifespan. (TI-5)

**Required Texts**

**Optional Supplemental Texts**

**Additional Required Materials**
Students are expected to possess and maintain materials necessary to complete all course assignments. Such materials may include (but is not limited to): copy paper, flash (thumb) drive, index cards, and paper clips.
### Evaluation Criteria

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<tr>
<th>Evaluation Criteria</th>
<th>Points Possible</th>
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<tr>
<td>Examinations (3 x 100 pts)</td>
<td>300</td>
</tr>
<tr>
<td>Assigned Readings &amp; Worksheets (15 x 10 pts)</td>
<td>150</td>
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<tr>
<td>Quizzes (10 x 10 pts)</td>
<td>100</td>
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<tr>
<td>Article Reviews (3 x 10 pts)</td>
<td>30</td>
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<tr>
<td>Comprehensive Final Exam (100 pts + 75 pts comprehensive)</td>
<td>175</td>
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<td><strong>Total Points Possible</strong></td>
<td><strong>755</strong></td>
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### Additional Course Credit

Students in this course may earn up to 10 additional class points (added to total points available) for participation in activities contributing to their professional development. These activities might include but are not limited to: participation in departmental and professional organizations, participation in departmental sponsored activities, participation in class activities and discussions, and participation in departmental, college, and area professional development opportunities. It is the responsibility of the student to keep track of his own participation and submit an explanation of these activities before the last day of the semester. Points are awarded at the discretion of the instructor.

### Final Grade Calculation:

A final grade will be assigned for ATEP 345 based upon the total number of points earned. No other factors will be considered in the assigning of the final grade. The grades for ATEP 345 and ATEP 345L will be assigned according to the following table:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade Earned</th>
<th>Percentage</th>
<th>Grade Earned</th>
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<tbody>
<tr>
<td>90-100 %</td>
<td>A</td>
<td>70-74 %</td>
<td>C</td>
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<tr>
<td>88-89 %</td>
<td>A-</td>
<td>68-69%</td>
<td>C-</td>
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<tr>
<td>85-87 %</td>
<td>B+</td>
<td>66-67%</td>
<td>D+</td>
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<tr>
<td>80-84%</td>
<td>B</td>
<td>64-65%</td>
<td>D</td>
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<tr>
<td>78-79 %</td>
<td>B-</td>
<td>62-63%</td>
<td>D-</td>
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<tr>
<td>75-77 %</td>
<td>C+</td>
<td>&lt;62%</td>
<td>F</td>
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*IT IS IMPORTANT TO NOTE THAT ANY STUDENT DETERMINED BY THE COLLEGE OF CHARLESTON HONOR BOARD TO BE IN VIOLATION OF ANY ASPECT OF THE HONOR CODE WILL BE ASSIGNED AN "XF" AS THE FINAL GRADE IN THIS COURSE, INDICATING FAILURE OF THE COURSE DUE TO ACADEMIC DISHONESTY.*

### Details of Evaluation Criteria

**Lecture Examinations:**

Three written tests covering material presented in the lecture portion of the course will be given on the dates provided on the tentative lecture schedule. In addition, a final examination will be given on the date assigned by the College of Charleston's final examination schedule.

**Assigned Readings & Worksheets:**

Prior to each class students will be required to complete various readings (i.e. textbook, case-study, etc.) in preparation for the class topic to be covered. Assignments may be accompanied with these readings, including but not limited to: short answer questions or charts/tables/worksheets to be completed. The aim of these assigned readings and worksheets are to prepare the student to engage in class discussions, gain a thorough understanding of the course content, and preparation for hands-on application of the lecture content in the laboratory based ATEP 345L. Assignments will be posted and available via OAKS.
**Quizzes:**
Throughout the course of the semester there will be 10 quizzes. These quizzes may or may not be announced ahead of time. If announced ahead of time, quizzes will be available for the student to complete via OAKS. Unannounced quizzes may be administered at the beginning of the class.

**Article Reviews Writing Project:**
You will be provided three (3) research articles throughout the semester. By the dates on the course schedule you need to read the article and answer the essay type questions associated with the article. Your word-processed answers to the article questions must be uploaded to the Drop box folder in OAKS. Your paper must be saved as a .doc or .docx file only. No other format will be accepted. The drop box folder will close on the due date and time. Papers submitted after the drop box folder has closed must be submitted to the drop box folder titled “Late Submissions.” Papers cannot be submitted via e-mail or in hard-copy. All article reviews will be graded and suggestions for improvement will be provided. These suggestions should be incorporated into your writing of the final submissions. A grading rubric will also be available on OAKS to ensure completeness of the assigned readings and questions.

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**Course Policies**

**Examination Policy**
You will be notified at least one week in advance if there is a change in a test date. Please note that if you miss a scheduled examination you will earn zero (0) points for that particular examination. No make-up examinations will be given for a missed examination. If extreme, unpreventable and unpredictable circumstances prevent you from attending an examination you should contact the course instructor as soon as possible. Consideration will be given on an individual case basis.

If you know you will be unable to attend an examination due to an excused absence (ie: athletic participation, professional conference, etc.) you must notify the instructor at least ten days prior to the absence.

**Late Work Policy**
All assigned work must be turned in at the beginning of class (or by the assigned due time for assignments submitted electronically) on the respective due date. Work submitted past this time (even on the due date) will have 20 percent of the total available points deducted for that day and for each subsequent calendar day, including weekend and holiday days.

**Required Technology**
1. Internet
2. OAKS (all features including quizzes, drop box)
3. Microsoft Powerpoint
4. Microsoft Word

All the technology listed above can be accessed in the College of Charleston computer labs throughout campus. If you do not know how to use any of these computer applications you should arrange an appointment with the course instructor for tutoring.

**Attendance**
You are expected to attend all class meetings. If extreme circumstances necessitate an absence you will be held responsible for the class material covered during your absence. YOU ARE RESPONSIBLE FOR ALL INFORMATION COVERED AND REFERRED TO IN CLASS. If you know you will be missing a class it is your responsibility to make arrangements with the instructor in advance of the missed class.

**Personal Electronic Devices**
The use of personal electronic devices, such as cell phones, is not permitted in class, unless as directed. Students needing to bring such devices to class must be sure the device is TURNED OFF (not set to vibrate) and secured inside a book-bag, purse, or pocket for the entire class time. Students who do not secure their electronic device out of site or who use personal electronic devices during class time will be asked to leave the classroom for the remainder of the class meeting time.

**Disability Statement**
If there is a student in this class who has a documented disability and has been approved to receive accommodations through SNAP Services, the student should please feel free to come and discuss this with me during my office hours.

**Honor Code and Academic Integrity**

It is expected that each student in this class will conduct him or herself within the guidelines of the honor system. All academic work should be done with the highest level of honor and integrity that this institution demands. Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student’s transcript for two years after which the student may petition for the X to be expunged. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board.

Students can find the complete Honor Code and all related processes in the *Student Handbook* at [http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php](http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php)

It is important for students to remember that unauthorized collaboration--working together without permission--is a form of cheating. Unless the instructor specifies students can work together on an assignment and/or test, no collaboration is permitted. **Other forms of cheating include possessing or using an unauthorized study aid (such as earlier versions of examination, graded class work, or assignments), copying from another’s exam, fabricating data, and giving unauthorized assistance.**