KINE 5432 Pathology and Pharmacology
4 credit hours

Spring 2014
Class: TR 11:00-12:20 – SH 105
Lab: F 9:00-10:50 – MAC 223

Class Instructor: Dr. Lou Fincher, ATC, LAT
Office: MAC 155A
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E-mail: lfincher@uta.edu
Office Hours: Available by appointment

Lab Instructor: Jed Stratton, MHA, ATC, LAT, PES, CES, CKTP
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Office Hours: Available by appointment


Purpose: A study of acute and chronic illnesses and their response to, and impact on, physical activity. Discussion of pharmacological agents used in the care of general illnesses and musculoskeletal disorders in the physically active.

Course Objectives: This course is structured around the Athletic Training Educational Competencies, 5th Edition, published by the NATA Executive Committee for Education.

The specific competencies addressed in this course include:

Prevention and Health Promotion (PHP): #3, 5, 8-9, 15-16, 17a, b, f, g, 48-49
Clinical Examination and Diagnosis (CE): #1-3, 7, 13, 15-19, 20a-c, f-j, 21b, h-p; 22-23
Acute Care of Injuries and Illnesses (AC): #5-7, 31-33, 35, 36a, e-l, n, o
Therapeutic Interventions (TI): #21-31
Healthcare Administration (HA): #22

Student Learning Outcomes: After completing this course, students will be able to:
1. differentiate the signs, symptoms, and pathophysiology associated with common medical illnesses.
2. use standard assessment techniques and procedures for the clinical examination of common conditions and medical illnesses (auscultation, percussion, otoscope, glucometer, peak expiratory flow, urinalysis, etc.)
3. formulate a clinical diagnosis and/or differential diagnosis based on the results of a thorough history and physical examination.
4. explain the management and return to participation guidelines for patients who have common medical illnesses.
5. explain the general therapeutic strategy, including drug categories used for treatment, desired treatment outcomes, and typical duration of treatment for the following common diseases and conditions: asthma, diabetes, hypertension, infections, GERD, allergies, pain, inflammation, and the common cold.
**Attendance:** Attendance at all scheduled class and lab meetings is **required** for success in this course and for developing your knowledge and skills related to the prevention, diagnosis, and treatment of general medical illnesses, as well as the pharmacological agents that are used to treat them.

Excused absences are those that involve travel related to your clinical assignment or illness. Other extenuating circumstances will be evaluated on a case-by-case basis. In order to be an excused absence, you must contact me **prior** (or immediately after in the case of illness) to your absence from class or lab. More than **two** unexcused absences will result in your final grade being dropped one letter (A to B, B to C, etc.)

**Major Assignments and Examinations:**

Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels.

**CLASS (75%)**

**Exams & Quizzes**
- Exams (3 @ 100 pts. each) 300
- Quizzes (10 @ 10 pts. each) 100
- Final Exam (Comprehensive) 150

**Evidence-Based Research Project**
- Critically Appraised Topic - Paper 75
- Critically Appraised Topic - Presentation 75

**Professional Development**
- Competency Self-Assessment (Pre & Post) 30
- Notebook 20

**LAB (25%)**
- Lab Worksheets/Assignments (15 @ 10 pts. each) 150
- Lab Practical Exam 100

**Grading Scale:**

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<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Points</th>
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<tbody>
<tr>
<td>A</td>
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<tr>
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<td>800-899</td>
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<td>C</td>
<td>70%</td>
<td>700-799</td>
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<tr>
<td>D</td>
<td>60%</td>
<td>600-699</td>
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<tr>
<td>F</td>
<td>&lt; 60%</td>
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**Active Learning:** Optimum success in this course and in your future career as a licensed and certified athletic trainer requires that you take an active role in your education. Active learning requires that you read the assigned material **PRIOR** to class or lab so that you can effectively participate in class discussions and group activities. Assignments and
discussions within this class are designed to help you develop your critical thinking and clinical decision-making skills. These skills will be essential for your success on your licensing and certification exams, as well as for your success in your future clinical practice and the health and welfare of your future patients.

**Exams:**

This course will include four exams (3 chapter exams and 1 comprehensive final exam). These exams will either be completed online via Blackboard or in class. **All students are expected to follow the course and University honor codes (see below) when completing these exams.**

**Critically Appraised Topic:**

The Critically Appraised Topic (CAT) enables students to answer a clinical question related to a specific patient condition. Developing a CAT will involve the following steps:

1. Identify a **focused, answerable question** related to the assessment and/or management of a specific non-orthopedic medical condition.
2. Conduct a literature search to identify the current evidence related to the clinical question.
3. Critically appraise the research evidence for validity and clinical relevance.
4. Apply the evidence to clinical practice.
5. Evaluate current clinical performance

Students will write their CAT in publication ready format (guidelines to be provided by instructor). Students will also present their findings to their peers via a classroom power point presentation.

**Quizzes:**

Quizzes will be administered through Blackboard or in class. The content of the quizzes will generally address assigned reading materials and power point modules. **Students are expected to follow the course honor code (see below) when completing these quizzes.**

**Labs & Lab Worksheets:**

Each lab provides the opportunity to learn patient assessment skills that are used to evaluate common medical illnesses. To become proficient in these assessment skills, you must **PRACTICE** them repeatedly. Lab worksheets are generally due at the beginning of the next lab meeting. Worksheets turned in late will have points deducted.

**Notebook:**

At the end of the semester, each student is required to turn in his/her course notebook for a grade. The three-ring notebook is expected to be neat and organized with labeled section tabs. The notebook should include power points, class & lab notes, articles, handouts, tests, quizzes, and lab worksheets. When returned, this notebook should be placed in your athletic training library.

**Honor Code:**

As an athletic training student, you are expected to follow the ethical and professional guidelines outlined within the NATA Code of Ethics and the BOC Standards of Practice. These guidelines are built on the qualities of honesty and integrity. When completing exams and quizzes in this class, I expect you to do so with professionalism, honesty and integrity.
UT Arlington Honor Code: I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or that I contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Department of Kinesiology and University Academic Policies

Expectations for Out-of-Class Study: Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 6-9 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.

Cell Phone Policy: No cell phone conversations or text messages are allowed during class. Students are expected to turn off or silence their cell phones during class. No cell phones are allowed during exams or quizzes.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. Contact the Financial Aid Office for more information.

Americans with Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the Americans with Disabilities Act (ADA). All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Academic Integrity: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. According to the UT System Regents’ Rule 50101, §2.2, "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts."

Student Support Services Available: The University of Texas at Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. These resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals to
resources for any reason, students may contact the Maverick Resource Hotline at 817-272-6107 or visit www.uta.edu/resources for more information.

**Electronic Communication Policy:** The University of Texas at Arlington has adopted the University “MavMail” address as the sole official means of communication with students. MavMail is used to remind students of important deadlines, advertise events and activities, and permit the University to conduct official transactions exclusively by electronic means. For example, important information concerning registration, financial aid, payment of bills, and graduation are now sent to students through the MavMail system. All students are assigned a MavMail account. **Students are responsible for checking their MavMail regularly.** Information about activating and using MavMail is available at http://www.uta.edu/oit/email/. There is no additional charge to students for using this account, and it remains active even after they graduate from UT Arlington.

To obtain your NetID or for logon assistance, visit https://webapps.uta.edu/oit/selfservice/. If you are unable to resolve your issue from the Self-Service website, contact the Helpdesk at helpdesk@uta.edu.

**Student Feedback Survey:** At the end of each term, students enrolled in classes categorized as lecture, seminar or laboratory will be asked to complete an online Student Feedback Survey (SFS) about the course and how it was taught. Instructions on how to access the SFS system will be sent directly to students through MavMail approximately 10 days before the end of the term. UT Arlington’s efforts to solicit, gather, tabulate, and publish student feedback data is required by state law; student participation in the SFS program is voluntary.