



University of Florida  
College of Health and Human Performance  
Department of Applied Physiology & Kinesiology  
Undergraduate Athletic Training Program

Fall 2017 Course Syllabus | Last Date Revised: 08/16/2017

### COURSE INFORMATION

ATR 4432, Section 01AE: Clinical Pathology & Pharmacology (3 credits)

August 21, 2017 – December 6, 2017

Meeting Time: Mondays 8:30am-10:25am and Wednesday 9:35am – 10:25am

Meeting Location: FLG 275

### INSTRUCTOR

Dr. Patricia M. Tripp, LAT, ATC, CSCS

Clinical Associate Professor

Director, Undergraduate Athletic Training Program

Office Location: 160 FLG

Office Phone: 352-294-1729

Email: [pmcginn@hhp.ufl.edu](mailto:pmcginn@hhp.ufl.edu)

Office Hours: By appointment, please email to confirm.

### COURSE DESCRIPTION

This course provides the student a thorough understanding of injury, illness and/or disease of various body systems; specific understanding of medical diagnostics, interventions (including pharmacology) and participation considerations for the athletic population are addressed. *Pre-requisite ATR 4822 with a "C" or higher.*

### LEARNING OUTCOMES

1. Identify, describe and explain the etiology, pathology, signs, symptoms, and initial management/referral procedures associated with various congenital or acquired abnormalities, physical disabilities and diseases
2. Apply proper evidence-based evaluation procedures in the diagnosis of common illnesses and injury to various body systems (i.e., cardiovascular, gastrointestinal, dermatological, orthopedic, etc.)
3. Identify and describe the basic principles of pharmacology as it applies to athletic training/sports medicine
4. Identify signs and symptoms of pathological conditions present in athletes with certain disabilities
5. Recognize and incorporate the knowledge of general medical conditions during pre-participation screenings and injury or illness assessment
6. Integrate and apply proper communication and documentation used during an injury/illness assessment

### REQUIRED TEXTS AND MATERIALS

| Textbook  | ISBN              |          |
|---|-------------------|----------|
| General Medical Conditions in the Athlete<br>Author: Katie Walsh Flanagan and Micki Cuppelt<br>Publisher: Elsevier Mosby<br>Year: 2017 Edition: 3 <sup>rd</sup> | 978-1-4925-3350-4 | Required |

|  |                   |             |
|--|-------------------|-------------|
| Cram Session in General Medical Conditions<br>Author: Robb Rehberg & Joelle Rehberg<br>Publisher: SLACK, Inc.<br>Year: 2012 Edition: 1 <sup>st</sup> | 978-1-5564-2948-4 | Required    |
| Principles of Pharmacology for Athletic Trainers<br>Author: Peg Houglum & Harrelson<br>Publisher: SLACK, Inc.<br>Year: 2011 Edition: 2 <sup>nd</sup> | 978-1-5564-2901-9 | Recommended |
| Please view course fees at <a href="https://one.uf.edu/soc/">https://one.uf.edu/soc/</a>   |                   |             |

## COURSE REQUIREMENTS AND POLICIES

**Examinations and Practical Examinations:** There will be NO make-up examinations unless exceptional conditions occur (as defined in the University of Florida Undergraduate Catalog). Please see this link for more information. <http://www.registrar.ufl.edu/catalog/policies/regulationattendance.html> Prior permission from the professor is required. There will be a time limit for each examination. Examinations will evaluate the understanding of material from lecture, text, and other supplemental material provided. As part of the CAATE requirements for completion of *Educational Competencies and Proficiencies*, **all students must pass (i.e., earn a “C” = 72% or higher) assessments of this material or complete remediation before moving on to the next course in the AT Program.** Students may complete up to two additional remediation opportunities, beyond the original assessment, to successfully pass a skill (practical exam) or content area (written/e-learning exam) within this course. Any student who cannot successfully complete the required CAATE competency and/or proficiency examinations after two remediation sessions will have their case reviewed by the AT Steering Committee. Students who require remediation two or more times throughout the semester on written and/or practical exams may also have their case reviewed by the AT Steering Committee.

**Quizzes:** Quizzes will assess learning progress from lecture material and assigned readings. To ensure that students are reading the assigned material, the quizzes will be both announced and unannounced. There will be NO make-ups for missed quizzes (showing up late, etc.), unless exceptional conditions occur as defined in the University of Florida Undergraduate Catalog. Please see this link for more information <http://www.registrar.ufl.edu/catalog/policies/regulationattendance.html>

**Assignments:** Assignments are due at the onset of class on the date assigned to them or submitted prior to the designated deadline in e-learning. **Please type all assignments** unless otherwise stated in the directions. **LATE ASSIGNMENTS ARE NOT ACCEPTED!** If you will be traveling for a University sanctioned event and will miss an assignment due date, your assignment is due **before** you leave. You must notify me with an explanation for missing class, in writing (email or letter), to receive an excused absence for class. Students are responsible for all materials missed because of an absence.

**Laboratory Experiences:** Laboratory experiences conducted throughout the semester may occur in Yon Hall I, or II or off-site at the Harrell Education Building (Anaclerio Learning and Assessment Center). Attendance and participation with laboratory experiences is required. Written notification of an absence (i.e., email) prior to class is required for an absence to be excused (see university regulations as stated above). Details/specific requirements for lab experiences will be available in Canvas prior to the lab date. Students must wear proper attire (e.g., gym shorts, tank tops, sports bras, etc.) during all lab experiences.

**Clinical Experience:** Primary Care (General Medical/Non-Musculoskeletal) clinical rotations are a required component of this course. Students will complete the clinical rotation under the director of a primary care physician (AT Program Preceptor). Current Bloodborne Pathogens, HIPAA and

Confidentiality training certificates required. Students must wear proper attire (e.g., AT program collared shirt, khaki pants, belt, sneakers, AT badge with UF ID showing current Flu Vaccination sticker) during the rotation(s). Specific expectations, documentation forms, etc. provided during course discussions and/or in e-Learning; note – students are responsible for securing and expenses related to transportation to and from the clinic.

**Attendance and Participation:** Throughout the semester we may have various guest speakers' present information to the class. Your attendance at these presentations is expected; written notification of an absence (i.e., email) prior to the class is required for an absence to be excused (see university regulations as stated above). Prior preparation through chapter readings and outlining will enable active participation for productive discussions. All students are required to attend lecture and lab experiences (*please review the academic absence policy in the AT Program Student Handbook*). Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies found in the online catalog <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

### COURSE SCHEDULE (SUBJECT TO MODIFICATION)

The course progression will tentatively follow the schedule below:

| <i>Dates</i> | <i>Topics</i>  | <i>Assignment</i>   |
|--------------|--|---|
| August 21    | Course Introduction (AT Program P&P, Syllabus, textbook web resources)<br>Chapter 1: Foundational Issues<br>Supplemental Information - JAT Article, NATA Statements - Infectious Disease in HS, Preventing Death in Sport 2012, ECP 2017, Michigan Practice Regulation | <i>2-period block</i><br>Read Chapter 1 & 2<br>Clinical Documents for Primary Care Rotation: Expectations and Schedule, (Preceptor Evaluation of Student Form, Verification of Evaluation, Student Evaluation of Site and Preceptor Form)<br>JAT Article - IOC PPE Consensus, NATA Statement Disqualifying Conditions PPE |
| August 23    | Chapter 2: Medical Examination [Principles of Clinical Pathology and Decision Making (Table 1-7)]  | Read Chapters 3 and 4   |
| August 28    | Chapter 3: Diagnostic Imaging and Testing<br>Chapter 4: Basic Principles of Pharmacology (combined Chapter 4-5 notes)  | <i>2-period block</i><br>Quiz #1 Foundational Issues, Medical Evaluation and Diagnostics (opens 6am 8/29 - 11:59pm 8/30)  |
| August 30    | Chapter 4: Basic Principles of Pharmacology (combined Chapter 4-5 notes)   | Review NATA Consensus Statement (Managing Medication), Position Statements (Anabolic Steroids and Nutritional Supplements), Pharmacokinetics and Pharmacodynamics Article; Read Chapter 5   |
| September 4  | No Classes – Labor Day   | Pharmacology Review Assignment (due September 8 at 11:59pm in Canvas)<br>NSAIDs Article; Medication and Supplements Article   |
| September 6  | Chapter 5: Drug Categories [Asthma Drug Therapy Chart, Managing Athletes with Asthma Statement]  | Quiz #2 Pharmacology (opens 6am 9/07 and closes 11:59pm 9/08)   |

|              |   |   |
|--------------|---|---|
| September 11 | Chapter 5: Drug Categories [Clinical Pharmacology Review/Discussion]  | 2-period block  |
| September 13 | E-Learning Exam I – Chapter 1-5 (Opens 6am and closes 11:59pm)  | Read Chapter 6 and Review Videos  |
| September 18 | Chapter 6: Common Procedures in the AT Clinic (FYI - Intraosseus Infusion Article) NEJM IV Handouts and Videos<br><br><i>Lab Experience: Suturing and IV Catheterization</i>  | 2-period block<br>Read Chapter 7 and Chapter 2 (RR), NATA Foundation Building Blocks, Managing Asthma in Athletes<br>Read Chapter 8 and Chapter 1 (RR); Review NATA Official Statement (Commotio Cordis) and NATA Consensus Statement (Sickle Cell) and Sickle Cell Trait (UF Flyer); Preventing Sudden Death in Sport Position Statement |
| September 20 | Chapter 7: Respiratory System (Chapter 2: Pulmonary Conditions)<br><br>Chapter 8: Cardiovascular System (Chapter 1: Cardiovascular Conditions)  | Cardiac Conditions Article; NATA Foundation Building Blocks Issue 6 and Issue 7; CV Screening for Adolescent Athletes; Commotio Cordis Review Article and Sudden Death in Athlete Article; Position Statement Disqualifying Conditions; Case Article Pneumomediastinum  |
| September 25 | Chapter 8: Cardiovascular System (Chapter 1: Cardiovascular Conditions)<br><br><i>Vital Signs, Respiratory, Cardiac Lab</i><br>Lab Participation Worksheet (due in class on Wednesday, September 27)                                    | 2-period block<br>Cardiac Sounds and ECG Tutorials ( <a href="http://www.blaufuss.org">www.blaufuss.org</a> )   (check out the Heart Sounds Tutorial and the SVT Tutorial - turn up volume on computer); Review AHA Task Force Guidelines 2015 Folder (7 files)   |
| September 27 | Guest Speaker: Dr. Bryan Prine – Cardiac Concerns in Sport<br>Reflection Paper due 11:59pm in Canvas  | Read Chapter 9, Chapter 6 (RR); Exercise and GI Function Articles 2003 and 2009; Celiac Disease Articles 2004 and 2005; Building Blocks Abdomen Issue #4 and #5; Case Article Liver Laceration, Case Article Splenic Artery Rupture   |
| October 2    | Chapter 9: Gastrointestinal System (Chapter 6: Gastrointestinal and Hepatic-Biliary Systems)<br><br><i>Quiz #3 Respiratory, Cardiac and Gastrointestinal (opens 6am 10/02 and closes 11:59pm on 10/03)</i>                              | 2-period block<br>Read Chapter 10 and Chapter 7 (RR); Review CDC Facts and Information Sheets (Folder), Resistant to Treatment, CDC Trend Information, Estimates Information  |
| October 4    | Chapter 10: Genitourinary and Gynecological Systems (Chapter 7: Renal, Urogenital and Reproductive Systems)<br><br>October 5 – Lab Experience at Harrell Education Building (Anaclerio Learning and Assessment Center) 8:00am – 12:00pm | Read Chapter 11 and Chapter 3 (RR); AT Article - Classroom Considerations Post-Concussion, King-Devick Article 2012 and 2014), AVM Case Article<br>Lab Experience Reflection Paper due October 6 at 11:59pm in Canvas   |

|            |   |  |
|------------|---|--|
| October 9  | <p><b>Reminder: Primary Care Rotations Begin October 10</b></p> <p>Chapter 10: Genitourinary and Gynecological Systems (Chapter 7: Renal, Urogenital and Reproductive Systems)</p> <p>Chapter 11: Neurological Systems (Figure 11-6: Cranial Nerves) (Chapter 3: Neurological Conditions)</p> | <p><i>2-period block</i></p> <p>Read Chapter 12, Chapter 13 (RR), Article Discussion – Eales Disease<br/>How to use Ophthalmoscope, NEJM Handout and Video</p> <p>Read Chapter 13, Chapter 8 (RR); EIB vs. Vocal Cord Dysfunction Article, Throat Injuries in Lacrosse, Otitis Media Outcome Questionnaire</p> |
| October 11 | <p><b>E-Learning Exam II - Chapters 6-10 (opens 6am October 11- 11:59pm October 12)</b></p>   | <p><b>½ Professional Knowledge Skills Check-Offs Due</b></p>   |
| October 16 | <p>Chapter 12: The Eye (Chapter 13: Ophthalmological Conditions)</p> <p>Chapter 13: Ear, Nose, Throat, Mouth (Chapter 8: Ear, Nose and Throat Conditions)</p>   | <p><i>2-period block</i></p> <p>Read Chapters 14 and Chapters 4, 5, and 11 (RR)</p> <p>Review NATA Position Statement (Diabetes)</p>   |
| October 18 | <p>Chapter 14: Systemic Disorders (Chapter 5: Hematological and Oncological Conditions, Chapter 11: Rheumatological, Chapter 4: Endocrine and Metabolic Conditions)</p>   | <p><i>Quiz #4 Eye, Ear, Nose and Throat (opens 6am October 17 and closes 11:59pm October 18)</i></p>   |
| October 23 | <p>Chapter 14: Systemic Disorders (Chapter 5: Hematological and Oncological Conditions, Chapter 11: Rheumatological, Chapter 4: Endocrine and Metabolic Conditions)</p> <p>Lab Experience - Urinalysis, Glucometry, Pulse Oximetry, BPPV, Ear, Eye Exam (due 10/25 in class)</p>              | <p><i>2-period block</i></p> <p>Read Chapter 15 and Chapter 9 (RR), NATA Communicable Disease</p>  |
| October 25 | <p>Chapter 15: Infectious Disease (Chapter 9: Infectious Disease)</p>   | <p>Read Chapter 16 and Chapter 10 (RR)</p>   |
| October 30 | <p>Chapter 16: Dermatological Conditions (Chapter 10: Dermatological Conditions)</p>  | <p><i>2-period block</i></p> <p>NATA Position Statement Skin Diseases, HA Case Article, and NATA Foundation Building Blocks Handout, Position Statement – Acute Skin Trauma</p> <p>Read Chapter 17 (CW)</p> <p>Quiz #5 Dermatology opens 6am 10/31 and closes 11:59pm 11/01</p>                                |
| November 1 | <p><b>E-Learning Exam III: Chapters 11-15 (6am November 1 -11:59pm November 2)</b></p>  |  |
| November 6 | <p>Chapter 17: Psychological and Substance Abuse Disorders (Chapter 12: Psychological Conditions)</p>   | <p><i>2-period block</i></p> <p>Female Athlete Triad Consensus Statement 2014; NATA Consensus Statement Collegiate and High School Psychological Considerations</p> <p>Read Chapter 19 (CW)</p>  |
| November 8 | <p><b>Guest Speaker: Dr. M. Seth Smith, PharmD - Opioid Epidemic and Role of ATs</b></p>  | <p><b>Reflection Paper due 11:59pm in Canvas</b></p>   |

|             |   |   |
|-------------|---|---|
| November 13 | Female Athlete Triad and Disordered Eating Management Team<br>Ms. Stacey Higgins, MS, LAT, ATC<br>Reflection Paper due 11:59pm in Canvas  | <i>2-period block</i><br>Review NATA Position Statement - Disordered Eating, Female Athlete Nutrition Article (Supplemental Information - COPE, HAM-A, Depression Scale, GAD-7, and Disordered Eating Assessment) |
| November 15 | Guest Speaker: Crisis Management Referrals<br>Reflection Paper due 11:59pm in Canvas  | Read Chapter 18 and Chapter 12 (RR); Example PPE, Pediatric Athletes Article 2002, SCI Classification Form, ASIA Assessment Form; Pediatric Overuse Injuries - NATA Position Statement                            |
| November 20 | Chapter 18: Working with Special Populations  | <i>2-period block</i><br>Exam IV Review Worksheet (due in Canvas by 11:59pm November 28)  |
| November 22 | <i>No Classes - Thanksgiving Holiday Break</i>  |   |
| November 27 | Cultural Competence in Patient Care Resources - Diversity in Health Care, Using C-B Model, Cultural Comp. AT 2003, Cultural Comp. AT 2010, CLASS Standards<br><br>AT Across the Life Span - Athletes Over 35 Resources - ACSM Ex Rx Older Adults, Injury Rates of Master Athletes, Treating Master Athletes | <i>2-period block</i><br><b>Primary Care Rotation Forms/Evaluation Due (via email) by 11:59pm on December 1</b>   |
| November 29 | Review: Preparation for Standardized Patients Practical Exam  | November 30: Practical Exam Harrell Education Building (Anaclerio Learning and Assessment Center) 8:00am - 11:00am  |
| December 4  | Guest Lecture - Victor W. Harris, Ph.D.<br><i>9 Important Communication Skills for Effective Communication</i><br>Reflection Paper due 11:59pm in Canvas  | <i>2-period block</i><br>Reminder: e-Course evaluations <a href="https://evaluations.ufl.edu">https://evaluations.ufl.edu</a> due December 6  |
| December 6  | E-Learning Exam IV Chapters 16-18 and Special Topics (opens 6am on December 5 and closes 11:59pm on December 6)   | Professional Knowledge Book Due by December 6 (submit in FLG 100c by December 8)  |



## GRADING CRITERIA

| Letter Grade | Grade Points | Percentage |
|--------------|--------------|------------|
| A            | 4.00         | 92 - 100   |
| A-           | 3.67         | 89 - 91    |
| B+           | 3.33         | 87 - 88    |
| B            | 3.00         | 82 - 86    |
| B-           | 2.67         | 79 - 81    |
| C+           | 2.33         | 77 - 78    |
| C            | 2.00         | 72 - 76    |
| C-           | 1.67         | 69 - 71    |
| D+           | 1.33         | 67 - 68    |
| D            | 1.00         | 62 - 66    |
| D-           | 0.67         | 60 - 61    |
| E            | 0.00         | Below 60   |

|   |             |
|---|-------------|
| E-Learning Examinations   | 60%         |
| Clinical Rotation, Documentation,<br>Professional Knowledge     | 15%         |
| Practical Exam, Quizzes, Labs, Attendance,<br>Reflection Papers | 25%         |
| <b>TOTAL GRADE</b>  | <b>100%</b> |

**IMPORTANT NOTE:** Students must earn a “C” or better in ATR 4432 to continue in the AT Program.

## COLLEGE/UNIVERSITY-WIDE POLICIES

**Academic Honesty:** As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” Students will exhibit behavior consistent with this commitment to the UF academic community.

Academic misconduct appears in a variety of forms (including plagiarism) and may be punishable in a variety of ways, from failing the assignment and/or the entire course to academic probation, suspension or expulsion. On all work submitted for credit by students at the university, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Faculty will not tolerate violations of the Honor Code at the University of Florida and will report incidents to the Dean of Students Office for consideration of disciplinary action. The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. If you have questions about what constitutes academic misconduct before handing in an assignment, see your instructor.

**Academic Assistance and Student Services:** Students who are in need of academic, career, or personal counseling services are encouraged to see the academic assistance website for further information on available services. [http://www.ufadvising.ufl.edu/academic\\_assistance/](http://www.ufadvising.ufl.edu/academic_assistance/)

**ADA Policy:** The University of Florida provides accommodations for students with documented disabilities. For more information regarding services and procedures for requesting accommodations visit <http://www.dso.ufl.edu/drc/> or call 352.392.8565. Students requesting classroom accommodation must first register with the Disability Resource Center. The Disability Resource Center will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

**Campus Resources: U Matter, We Care:** Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu); a nighttime and weekend crisis counselor is available by phone at 352.392.1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

**University Police Department:** 392.1111 or 9-1-1 for emergencies <http://www.police.ufl.edu/>  
**Counseling and Wellness Center:** <http://www.counseling.ufl.edu/cwc/Default.aspx>,  
352.392.1575; *Sexual Assault Recovery Services (SARS)* Student Health Care Center, 352.392.1161.

**Career Resource Center:** Reitz Union, 352.392.1601, <http://www.crc.ufl.edu/>

**Cell Phone/Text Messaging Policy:** Students will not engage in text messaging or access their cellular telephones during class time. Faculty will award special considerations at his/her discretion.

**Confidentiality:** The University ensures the confidentiality of student educational records in accordance with State University System rules, state statutes and [FERPA](#), the Family Educational Rights and Privacy Act of 1974, as amended, also known as the Buckley Amendment.  
<http://www.registrar.ufl.edu/catalog/policies/regulationconfidentiality.html>

**Course Grading Policy:** Students will earn their course grade based on completion of coursework as outlined in the Grading Criteria listed above. Percentage calculations are rounded up at “.6 or above” and rounded down at “.5 or below”. For more information regarding Grade Point Averages, Grade Values, etc. please visit the University registrar website listed below.  
<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

**Course Evaluations:** Students should provide feedback on the quality of instruction in this course by completing online evaluations <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

**Email and E-Learning Policy:** Students are required to check their University of Florida email and E-Learning Course account daily. Dissemination of reminders and course material may occur via email or through announcements in E-Learning; it is the student’s responsibility to read and respond (if appropriate). *E-learning Help Desk:* <https://lss.at.ufl.edu/help.shtml> *Technical support:* 352.392.4357 (select option 2) or e-mail to [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu)

**Last Day to Withdraw:** In order to withdraw from a course it is not sufficient simply to stop attending class or to inform the instructor of your intention to withdraw. In accordance with college policy, contact your adviser to begin the withdrawal process. To view the last day for withdrawal please visit <http://www.registrar.ufl.edu/catalog/adhub.html>

**Library Resources Support:** <http://cms.uflib.ufl.edu/ask>

**Student Responsibility for Course Prerequisites:** Students are responsible to have satisfied all published prerequisites for this class. Please review the prerequisites and discuss any questions with your instructor and/or your academic advisor.

**Student Complaints Process:** [https://www.dso.ufl.edu/documents/UF\\_Complaints\\_policy.pdf](https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf)



Teaching Center: General study skills and tutoring <http://teachingcenter.ufl.edu/> Broward Hall, 352.392.2010 or 352.392.6420.

Writing Studio: Formatting and writing papers assistance <http://writing.ufl.edu/writing-studio/>

DRAFT