

# Clinical Techniques and Pharmacology I

ATR7438 | 3 Credits | Spring 2025

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## Course Info

### INSTRUCTOR

Christopher Brown, PhD, LAT, ATC, CSCS, TSAC-F, PES, OPE-C  
Clinical Associate Professor  
Office: FLG122  
Email: [cdbrown7@ufl.edu](mailto:cdbrown7@ufl.edu)

### OFFICE HOURS

Will be held for 2 hours each week and the schedule will be posted on CANVAS.

By appointment, please click [HERE](#)

### MEETING

Meeting Time: Mondays from 8:30-11:30am

### TIME/LOCATION

Meeting Location: Yon Hall 11

## COURSE DESCRIPTION

Designed to advance Athletic Trainers application and implementation of pharmacology; including medications commonly used among physically active patients. Athletic Trainers will advance their skills and experience with using techniques employed clinically for diagnostics, management and treatment intervention for injury, illness and emergent conditions. *Pre-requisite: Admission into the Doctor of Athletic Training program.*

## PREREQUISITE KNOWLEDGE AND SKILLS

*Pre-requisite: Admission into the Doctor of Athletic Training program.*

## REQUIRED AND RECOMMENDED MATERIALS

Textbook	ISBN	
Suture Kit There are several available on Amazon. I recommend the one made by the Apprentice Doctor. It's unusually around \$30. (key words below) <i>Suture Practice Kit for Medical Students. Includes 1 Year Access to the Future Doctors Academy in-Depth Online Suturing Course. Training and Practice Kit Designed by Experienced Medical Professionals</i>		Required
Pharmacology for the Surgical Technologist Author: Katherine Snyder and Chris Keegan Publisher: Elsevier	978-0323340830	Recommended

Year: 2016, Edition: 4 <sup>th</sup>		
Orthopaedic Immobilization Techniques Author: Samuel Brown and Frank Radja Publisher: Sagamore Publishing Year: 2014, Edition: 1 <sup>st</sup>	978-1571677426	Recommended
All reading materials will be available on the class web page (E-Learning) or the instructor will provide soft or hard copies in person. Journal articles will be used frequently. Most articles will be available on-line, but some will need to be retrieved from various libraries on campus.		
Please view course fees (if applicable) at <a href="https://one.uf.edu/soc/">https://one.uf.edu/soc/</a>		

### **COURSE FORMAT**

Course material will be presented through in-person lectures, online materials and interactive workshop formats with 3.0 contact hours per week. This class will consist primarily of class roundtable discussions and some didactic presentations. Canvas e-learning platform will provide students with content to supplement discussions, details regarding assignment expectations and grading criteria/rubrics and serve to assist the student with applicable resources for programmatic success within the Doctor of Athletic Training Program.

### **COURSE LEARNING OBJECTIVES:**

1. Develop, critique and implement pharmacological policies and procedures (e.g., medication usage, handling, documentation) for compliance with federal, state and local regulations
2. Apply actual or simulated diagnostic and treatment procedures for wound management, hydration and joint disease (e.g., suturing, staples, intravenous catheterization, aspirations, etc.)
3. Fabricate, apply and modify orthopedic devices (e.g., casts, splints, traction devices, etc.) to achieve patient outcomes for the physically active individual
4. Apply clinical techniques and knowledge within the scope of practice for Athletic Trainers

### **Course & University Policies**

#### **ATTENDANCE POLICY**

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>

## PERSONAL CONDUCT POLICY

University of Florida students are bound by the Honor Pledge. On all work submitted for credit by a student, the following pledge is required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The [Student Honor Code and Conduct Code \(Regulation 4.040\)](#) specifies a number of behaviors that are in violation of this code, as well as the process for reported allegations and sanctions that may be implemented. All potential violations of the code will be reported to Student Conduct and Conflict Resolution. If a student is found responsible for an Honor Code violation in this course, the instructor will enter a Grade Adjustment sanction which may be up to or including failure of the course.

## APPROPRIATE USE OF AI TECHNOLOGY

The UF Honor Code strictly prohibits [cheating](#). The use of any materials or resources prepared by another person or Entity (inclusive of generative AI tools) without the other person or Entity’s express consent or without proper attribution to the other person or Entity is considered *cheating*. Additionally, the use of any materials or resources, through any medium, which the Faculty / Instructor has not given express permission to use and that may confer an academic benefit to a student, constitutes *cheating*.

In some instances within this course, the use of AI tools will facilitate student development of skills and knowledge acquisition within the stated learning objectives. However, in other components, the use of any AI enabled tool in this course substantially compromises the student’s ability to achieve the stated learning objectives. If AI is permissible on an assignment or assessment there will be a statement clarifying acceptable AI use for that respective learning assessment. When students opt to leverage AI tools to augment their submitted products, they will be expected to appropriately cite the tool(s) utilized. Further, students will be held accountable under the scope of the UF Student Honor Code & Conduct Code for the content of all work they submit (including the portions that may have been produced in part or whole by an external Entity—inclusive of AI). Thus, students should engage in active editorial and underwriting efforts to ensure the totality of the work submitted reflects their intentions and ethical values. If there is no statement of appropriate use please do not use AI.

## IN-CLASS RECORDING

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or guest lecturer during a class session. Publication without permission of the instructor is prohibited.

To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if

it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

### **MAKE-UP POLICY**

**Exams:** 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.

**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.

### **ACCOMMODATING STUDENTS WITH DISABILITIES**

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting their Get Started page at <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

### **COURSE EVALUATIONS**

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://my-ufl.bluera.com/>. Thank you for serving as a partner in this important effort. Students should provide feedback on the quality of instruction in this course by completing online evaluations. 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://gatorevals.aa.ufl.edu/public-results/>.

## Getting Help

### HEALTH & WELLNESS

- U Matter, We Care: If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) or 352 392-1575
- Counseling and Wellness Center: <https://counseling.ufl.edu/>, 352-392-1575
- Sexual Assault Recovery Services (SARS) - Student Health Care Center, 392-1161
- University Police Department, 392-1111 (or 9-1-1 for emergencies) <http://www.police.ufl.edu/>

### ACADEMIC RESOURCES

- E-learning technical support, 352-392-4357 (select option 2) or e-mail to [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu). <https://lss.at.ufl.edu/help.shtml>
- Career Connections Center, Reitz Union, 392-1601. Career assistance and counseling. <https://career.ufl.edu/>
- Library Support, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>
- Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <http://writing.ufl.edu/writing-studio/>
- Student Complaints On-Campus: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/> On-Line Students Complaints: <http://distance.ufl.edu/student-complaint-process/>

### CIVILITY ACCESSABILITY AND COMMUNITY RESOURCES

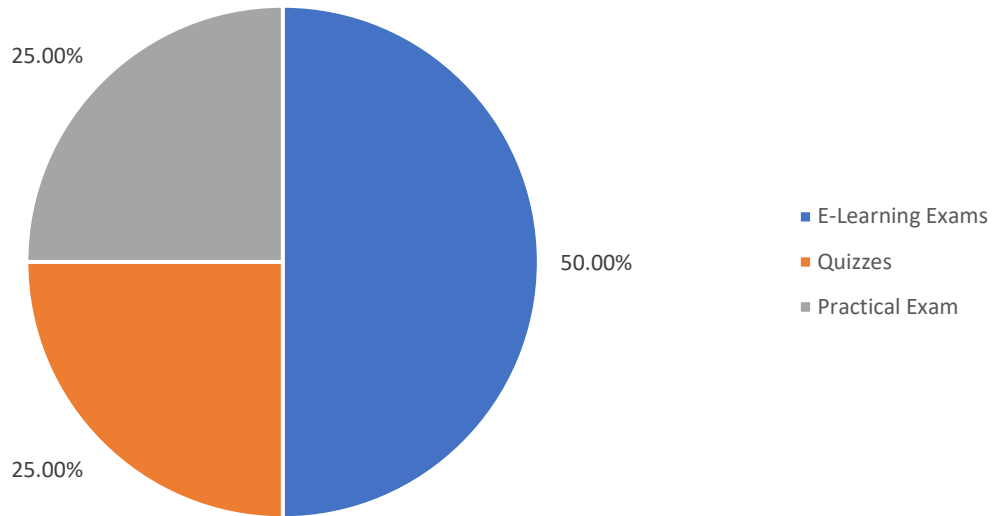
For suggestions or concerns related to IDEA, please reach out to any of the following:

- Dr. Ashley Smuder, APK Culture and Engagement Committee Chair, [asmuder@ufl.edu](mailto:asmuder@ufl.edu)
- Dr. Stephen Coombes, APK Graduate Coordinator, [scoombes@ufl.edu](mailto:scoombes@ufl.edu)
- Dr. Joslyn Ahlgren, APK Undergraduate Coordinator, [jahlgren@ufl.edu](mailto:jahlgren@ufl.edu)

### Grading (all assignments are described on CANVAS and will be discussed in class)

- |                    |     |
|--------------------|-----|
| • E-Learning Exams | 50% |
| • Quizzes          | 25% |
| • Practical Exam   | 25% |

## Grade Breakdown



## GRADING SCALE

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

## Weekly Course Schedule

Week	Topics	Assignments
1-13	<ol style="list-style-type: none"> <li>1. Introduction/Syllabus</li> <li>2. Review Pharmacodynamics and Pharmacokinetics</li> <li>3. Safety Guidelines and Medication Regulation</li> </ol>	
1-20	<b>MLK Holiday</b>	
<b>1-29 (Wed)</b>	<ol style="list-style-type: none"> <li>1. Injections</li> </ol> <p><b>Jason Zaremski M.D. CAQSM, FACSM, FAAPMR</b></p> <ol style="list-style-type: none"> <li>2. Injections Lab</li> </ol>	Dynamics/Kinetics and Safety Quiz
2-3	<ol style="list-style-type: none"> <li>1. Pain Medications</li> <li>2. Anti-Inflammatory Agents</li> <li>3. Anti-Biotics, Anti-fungals, Anti-virals</li> </ol>	Injections Quiz
2-10	Blood Draw Lab	Pain, anti-Inflammatory, Anti-biotic, Anti-viral, Anti-fungal Quiz
2-17	<ol style="list-style-type: none"> <li>1. Diagnostic Agents</li> <li>2. Coagulation Agents</li> <li>3. Irrigation Medications</li> </ol>	Blood Draw Quiz
2-24	IV Administration	Diagnostics, Coagulation, Fluids and Irrigation Quiz
3-3	Exam #1	
3-10	<ol style="list-style-type: none"> <li>1. Aseptic Technique/Scrubbing-in</li> <li>2. Suturing/Wound Care Strategies</li> </ol>	
3-17	<b>Spring Break</b>	
3-24	Suturing and Wound Care Strategies <p><b>Matthew Walser PA-C, ATC</b></p>	Aseptic and Wound Closure Quiz
3-31	Fundamentals of Casting (Yon 1)	Suturing Techniques Quiz
4-7	Casting (Yon 1)	Casting Quiz
4-14	Practical Exams	
4-21	Exam #2	Suturing Video Due 4-23