

# Clinical Techniques and Pharmacology I

ATR7438 | 3 Credits | Spring 2024

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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

- All students are expected to conduct themselves in a respectful and responsible manner
- All students are expected to be on time for class
- All students are expected to turn off or silence their cell phones
- All students are expected to not participate in actions that may disrupt the class
- All students are expected to wear a mask in the classroom and stay home if they feel unwell
- The instructor reserves the right to ask any student to leave the classroom, if the student violates any the above class procedures

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 (<https://sccr.dso.ufl.edu/students/student-conduct-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.

## 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://ufl.bluera.com/ufl/>. 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

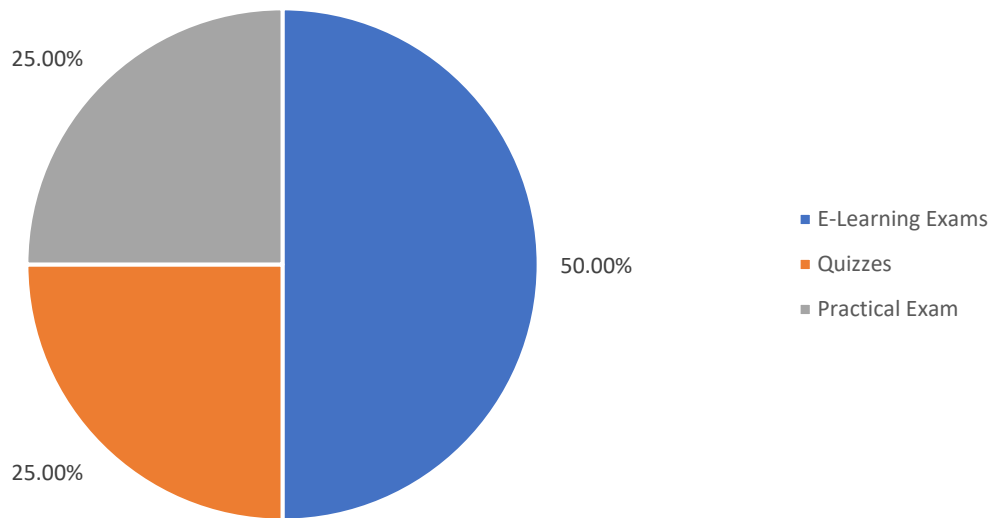
For suggestions or concerns related to IDEA, please reach out to any of the following:

- 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

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

## Weekly Course Schedule

Week	Topics	Assignments
1-8	<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>	Dynamics/Kinetics and Safety Quiz
1-15	<b>MLK Holiday</b>	
<b>1-24 (Wed)</b>	Preparing Injections and Administering Injections/Draining <b>Jason Zaremski M.D. CAQSM, FACSM, FAAPMR</b>	Injections Quiz
1-29	<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> <li>4. Blood Draws</li> </ol>	Pain, anti-Inflammatory, Anti-biotic, Anti-viral, Anti-fungal Quiz
2-5	Blood Draw Lab	Blood Draw Quiz
2-12	<ol style="list-style-type: none"> <li>1. Diagnostic Agents</li> <li>2. Coagulation Agents</li> <li>3. Irrigation Medications</li> </ol>	Diagnostics, Coagulation, Fluids and Irrigation Quiz
2-19	IV Administration	
2-26	Exam #1	
3-4	<ol style="list-style-type: none"> <li>1. Aseptic Technique/Scrubbing-in</li> <li>2. Suturing/Wound Care Strategies</li> </ol>	Aseptic and Wound Closure Quiz
3-11	<b>Spring Break</b>	
3-18	Suturing and Wound Care Strategies <b>Matthew Walser PA-C, ATC</b>	Suturing Techniques Quiz
3-25	Fundamentals of Casting (Yon 1)	
4-1	Casting (Yon 1)	Casting Quiz
4-8	Practical Exam Practice	
4-15	Practical Exams/Exam #2	
4-22	Practical Exams/Exam #2	Suturing Video Due 4-23