



University of Florida
 College of Health and Human Performance
 Department of Applied Physiology & Kinesiology
 Doctor of Athletic Training Program
 Fall 2020 Course Syllabus | Last Date Revised: 7/19/2020

COURSE INFORMATION

ATR 7229c: Diagnostic Imaging for Athletic Trainers (3 credits)
 August 31, 2020 – December 9, 2020
 Meeting Time: Thursdays, 10:40 AM - 1:40 PM
 Meeting Location: Yon Hall 11 and Online

INSTRUCTOR

Dr. Brady L. Tripp, LAT, ATC
 Clinical Associate Professor
 Director, Doctor of Athletic Training Program
 Office Location: 148 FLG
 Office Phone: 352-294-1725
 Email: trippb@ufl.edu
 Office Hours: Wednesdays 2:00-4:00 and by appointment.

COURSE DESCRIPTION

Provides Athletic Trainers background information on the physics, physiology, appropriate use and appraisal of diagnostic imaging techniques used in sports medicine including: radiography, magnetic resonance imaging, ultrasonography and nuclear medicine. Athletic Trainers develop skills interpreting diagnostic imaging and analyze the principles and procedures used in each technique. *Pre-requisite: Admission into the Doctor of Athletic Training program.*

LEARNING OUTCOMES

1. Identify, compare, and contrast the physics and physiology behind various diagnostic imaging techniques
2. Evaluate normal and abnormal anatomy or physiology on various diagnostic imaging techniques
3. Evaluate pathologic anatomy or physiology associated with conditions commonly sustained by the physically-active population
4. Critically assess the published evidence evaluating the diagnostic value of imaging used in sports medicine

REQUIRED TEXTS AND MATERIALS

Textbook	ISBN	
Reading materials will be available on the class Canvas page or the instructor will provide soft or hard copies in person. Journal articles will be used frequently. Other articles will be available online and retrieved from various libraries.		

COURSE REQUIREMENTS AND POLICIES

Teaching Strategies: Course material will be presented through in-person and video lectures, online materials and interactive workshop formats with 3.0 contact hours per week. This class will consist primarily of roundtable discussions and some didactic presentations. Canvas will provide students with video lectures, 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 DAT Program.

Examinations: Written exams will be administered via Canvas and will range in points from 75 – 300 and include a variety of question formats (e.g., multiple choice, select all that apply, matching and rank order). Each exam will include a practical portion that will include interpreting diagnostic imaging and employing diagnostic ultrasound. Practical portions will include a time limit of 10 to 20 minutes. There will be NO make-up exams unless exceptional conditions occur (as defined in the [University of Florida Catalog](#)). Prior permission from the professor is required. There will be a time limit for each written exam. Exams will evaluate the understanding of material from lecture, text, and other supplemental material provided. Please be sure to have a secure internet access when taking exams - do not use a Wi-Fi access, as this is not a stable and consistent option. For MAC users, Safari is not a compatible internet browser with Canvas - please use either Internet Explorer, Google Chrome or Firefox (version 10 or 12 - not 11) when accessing the Canvas.

Quizzes: Quizzes will assess learning progress from lecture material and assigned readings. There will be a time limit for each quiz. Quizzes will be open on Canvas each class period (aside from review and exam dates) after the professor has addressed all student questions. Quizzes will range from 1-35 points and include a variety of question formats (e.g., multiple choice, select all that apply, matching and rank order). For quizzes administered in Canvas students may be permitted to use notes if permitted by the professor. should employ exam best practices (stated above) for Canvas quizzes. There will be NO make-ups for missed quizzes (showing up late, etc.), unless exceptional conditions occur as defined in the [University of Florida Catalog](#).

Critical Appraisal Assignments: Assignments are to be submitted on Canvas prior to the onset of class. **LATE ASSIGNMENTS ARE NOT ACCEPTED!** The professor will assign topics a week in advance. Students will search published literature for evidence quantifying the diagnostic value of an assigned imaging technique on an assigned pathology. Students will complete a critical appraisal of an appropriate study (highest level of evidence and most applicable available) using the appropriate checklist (QUADAS primarily, for others, see How to Critically Appraise an Article). Students will create a narrated PowerPoint presentation detailing their search strategy and results as well as their critical appraisal.

Literature Search Results and Critical Appraisal Rubric:

Item	Points
Search terms and results are appropriate	7
Correct study design checklist employed	7
Checklist items are interpreted and presented appropriately	48
PowerPoint quality	14
Video and narration quality	14
Video is within time restrictions (5 min. for a single study; 8 min. for SR or M-A)	7
A pdf of the article is included	3
Total	100

Attendance: Throughout the semester, various 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). All students are required to attend lectures (*please review the academic absence policy in the DAT Program Policies and Procedures Manual*). Requirements for class attendance and make-up exams, assignments, and other work are consistent with [university policies](#) found in the online catalog.

Student 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
- The instructor reserves the right to ask any student to leave the classroom, if the student violates any the above class procedures

Critical-Thinking Questions and Participation: Each student, as part of his/her participation, is expected to ask questions. Insightful questions will be monitored during the year and contribute to participation grade. In addition, attending class, contributing to class, and useful information provided during class will be counted toward your participation grade. Any class period listed as "discussion", requires prior review of posted content to facilitate a valuable learning experience. Failure to come to class "prepared" creates an ineffective environment for valuable exchange of information. The instructor will use the rubric in the table below to assign participation points during discussion sessions (see dates within the course schedule listed as “discussion”).

Excellent	10 pts	Defines, describes, and illustrates concepts Explains, assesses and criticizes ideas Demonstrates preparation and reading of assignments
Good	8 pts	Defines, describes, and illustrates concepts Explains, assesses and criticizes ideas Evidence of reading assignments, but not fully prepared
Reasonable	6 pts	Defines, describes, and illustrates concepts Explains, assesses, or criticize some ideas Evidence of incomplete reading of assignments and preparation
Basic	4 pts	Defines and describes some concepts Explains but cannot assess and criticize ideas Clearly unprepared and lacking evidence of reading assignments
Bare Minimum	2 pts	Defines and describes some concepts Unable to explain, assess, or criticize ideas Clearly unprepared and lacking evidence of reading assignments
Unacceptable	0 pts	Refuses to engage in discussion or answer questions when asked Engaged into inappropriate behaviors (using cell phone, social media, visiting irrelevant websites) Not present

Plagiarism: Defined as the use and appropriation of another's work without any indication of the source and the representation of such work as the student's own. Any student, who fails to give credit for ideas, expressions or materials taken from another source, including internet sources, projects/papers submitted for another course (either intentional or unintentional), is guilty of plagiarism (*please refer to the DAT Program Plagiarism Policy*).

COURSE SCHEDULE (SUBJECT TO MODIFICATION)

The course progression will tentatively follow the schedule below:

Week	Date	Topics	Assignments
1	9-1	Overview of Syllabus and Materials; Radiography	Syllabus Quiz; Quiz; Discussion (Critical Thinking Questions and Participation)
2	9-8	Magnetic Resonance	Critical Appraisal; Quiz; Discussion (CTQP)
3	9-15	Ultrasonography	Critical Appraisal; Quiz; Discussion (CTQP)
4	9-22	Nuclear Medicine: Bone Scintigraphy, SPECT, PET	Critical Appraisal; Quiz; Discussion (CTQP)
5	9-29	SC and Shoulder	Critical Appraisal; Quiz; Discussion (CTQP)
6	10-6	Elbow	Critical Appraisal; Quiz; Discussion (CTQP)
7	10-13	Exam and Practical Exam I	
8	10-20	Forearm, Wrist and Hand	Critical Appraisal; Quiz; Discussion (CTQP)
9	10-27	Foot and Ankle	Critical Appraisal; Quiz; Discussion (CTQP)
10	11-3	Knee	Critical Appraisal; Quiz; Discussion (CTQP)
11	11-10	Hip and Pelvis	Critical Appraisal; Quiz; Discussion (CTQP)
12	11-17	Thoracic and Lumbar Spine	Critical Appraisal; Quiz; Discussion (CTQP)
13	11-24	Cervical Spine	Critical Appraisal; Quiz; Discussion (CTQP)
14	12-1	Face and Mandibular Fx / Review	Critical Appraisal; Quiz; Discussion (CTQP)
15	12-8	Exam and Practical Exam II	

CTQP, Critical Thinking Questions and Participation

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

Canvas Written Exams (2)	36%
Practical Exams (2)	14%
Quizzes (13)	22%
Critical Appraisals (4-5)	22%
Critical-Thinking Questions and Participation (13)	6%
TOTAL GRADE 100%	

COLLEGE/UNIVERSITY-WIDE POLICIES

Academic Honesty: UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The [Honor Code](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult the 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.

ADA Policy: 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. 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.

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; 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

Counseling and Wellness Center: 352.392.1575; *Sexual Assault Recovery Services (SARS)* Student Health Care Center, 352.392.1161.

Career Resource Center: Reitz Union, 352.392.1601

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 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](#).

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](#).

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 [here](#). 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 [here](#). Summaries of course evaluation results are available to students [here](#).

Covid-Related: We will have face-to-face instructional sessions to accomplish the student learning objectives of this course. In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

You are required to wear approved face coverings at all times during class and within buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution.

This course has been assigned a physical classroom with enough capacity to maintain physical distancing (6 feet between individuals) requirements. Please utilize designated seats and maintain appropriate spacing between students. Please do not move desks or stations.

Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.

Follow your instructor's guidance on how to enter and exit the classroom. Practice physical distancing to the extent possible when entering and exiting the classroom.

If you are experiencing COVID-19 symptoms ([Click here for guidance from the CDC on symptoms of coronavirus](#)), please use the UF Health screening system and follow the instructions on whether you are able to attend class. [Click here for UF Health guidance on what to do if you have been exposed to or are experiencing Covid-19 symptoms](#).

Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work. [Find more information in the university attendance policies](#).

Privacy: Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Email and E-Learning Policy: Students are required to check their University of Florida email and Canvas Course account daily. Dissemination of reminders and course material may occur via email or through announcements in Canvas; it is the student's responsibility to read and respond (if appropriate). [E-learning Help Desk](#): Technical support: 352.392.4357 (select option 2) or e-mail to 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** see [here](#).

Library Resources Support

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

Teaching Center: General study skills and tutoring; Broward Hall, 352.392.2010 or 352.392.6420.

Writing Studio: Formatting and writing papers assistance