PHT 6187C  
Sections: 5336, 5333, 01B6  
FUNCTIONAL ANATOMY I  
FALL SEMESTER 2017

DEPARTMENT OF PHYSICAL THERAPY  
DOCTORATE of PHYSICAL THERAPY PROGRAM

COLLEGE OF PUBLIC HEALTH and HEALTH PROFESSIONS  
UNIVERSITY OF FLORIDA  
GAINESVILLE, FL

INSTRUCTORS:  

Claudia Senesac, PT, PhD, PCS

2017 Claudia Senesac, Gainesville, Florida
COURSE DESCRIPTION:
The dissection portion of this course involves the study employing lecture and laboratory sessions involving regional cadaveric dissection under the supervision of instructors. Emphasis is on the neuromuscular and musculoskeletal anatomy. Application of the basic anatomical foundations is then applied in lecture and lab with emphasis on biomechanics, joint function, muscle and boney palpation, soft tissue and joint techniques, and introduction to gait.

CLASS SCHEDULE:
Lecture: (G-301) (G-301) Tuesday Thursday 7:30-9:20am 7:30-9:20am

Labs: (CG 007) Tuesday A 10:40-12:35am B 12:50 - 2:45pm
(CG 007) Thursday A 10:40-12:35am B 12:50 - 2:45pm
General Objectives across both portions of this course (Senesac/Bishop):
The student will be able to...................

1. Demonstrate **appropriate affective behaviors** (at the level of 90%) during class lecture, classroom laboratory sessions, dissection lab, student presentations, and classroom and laboratory examinations. These behaviors include but are not limited to respect, consideration, communication, and professionalism. (Please refer to the generic abilities and professional development plan for more details). Students will use feedback to improve affective skills.

2. Define the anatomical and biomechanical terminology and use the terminology appropriately when discussing anatomical content in the classroom and in the laboratory.

3. Identify and locate the points of osteology as listed in the syllabus.

4. Discuss the joints of the body including classification and type, structures (ligaments and other) involved and their functions, and motions occurring at the joint.

5. Discuss the plexi indicating trunks, divisions, and cords from which each nerve emerges and give cord segments for each nerve with an asterisk.

6. Trace the course of each peripheral nerve finding branches to each muscle innervated and the cutaneous branches. Indicate the area of cutaneous innervation for each cutaneous nerve in the body per region.

7. Describe, identify and locate muscle attachments, nerve supply, and primary actions of muscles in the body per region.

8. Describe, identify and locate major arterial and venous structures in the body per region.

9. Describe, identify and locate the organs in the body per region

10. Discuss the relationship of structures in the body to one another:(arteries/veins/nerves/muscle layers/compartments/regions)

11. Explain the sequence of joint motion and muscle activity at complex joints and during complex movements

12. Explain manual therapy

13. Identify boney landmarks and muscles through palpation.

14. Discuss the mechanisms through which manual therapy may influence pain

15. Discuss the historical perspective for the use of manual therapy in physical therapy practice
16. Identify and explain definite and relative contraindications for the use of manual therapy

17. Apply biomechanical principals to use passive movements of joints arthokinematics for joint testing and interventions used by physical therapists

18. Explain and demonstrate muscle- and nerve-based interventions used by physical therapists

19. Evaluate human movement for deviations and compensations and hypothesize possible causes for these deviations

20. Design simple tests of and interventions for musculoskeletal function

TEXTS REQUIRED: These textbooks will be used both fall and spring terms:
- Senesac C: Anatomy Syllabus. Department of Physical Therapy, University of Florida, Gainesville, FL, 2013. *this will be available online through e-learning
- Senesac CR, Bishop M: Finley’s Interactive Cadaveric Dissection Guide, available through Clinicians View:
  - [https://www.clinicians-view.com\University](https://www.clinicians-view.com\University)
  - Access code: bf1af892-26
- *You must have an Atlas, it can be any atlas BUT you must have one!* *Real color photos work best for dissection. There are many to choose from here are just a few that have worked well.*

RECOMMENDED:
- Muscolino JE, Musculoskeletal Anatomy Coloring Book, 2nd edition, Mosby, 2010 (~$30.00 Softcover). Available at bookstores and Amazon.com
**Some of the overheads used in the course come from this book**

EQUIPMENT AND DRESS:
Each student MUST have their own dissection kit! A dissection kit consisting of a probe, scalpel with handle #3 and blades #10, hemostat forceps (5 inch), and tissue forceps (without tooth) is REQUIRED. You will need approximately 20-30 blades (#10) for this semester. A lab coat will prevent fluids from staining your clothes and is RECOMMENDED. Plastic lab coats or aprons are not satisfactory. The Florida State Anatomical Board REQUIRES all persons handling cadaveric materials to wear gloves (latex). A mask is optional. I recommend the molded type of mask, rather than the soft mask. These may be purchased at a local pharmacy. You must wear close toe shoes in the laboratory NO open toe shoes may be worn in the lab.
*If you arrive with open toe shoes you will be asked to leave the lab.

**Items to bring to every lab period:** dissection guide, atlas, dissection kit, gloves.

*If you do not have other required items you will be asked to leave the lab.

**Instructional Methods:**
- Dissection Lecture: lecture, discussion, group presentations
- Dissection Lab: guided dissection with feedback, student presentations
- Functional Lecture: lecture/discussion,
- Functional Classroom Laboratory: sessions are designed to facilitate your understanding of anatomy in the context of function and movement.

**Grading Scale**

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<th>Grade Range</th>
<th>Letter Grade</th>
<th>Grade Point</th>
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<tbody>
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<td>A</td>
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<tr>
<td>90-92</td>
<td>A-</td>
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<td>Below 60</td>
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Grades given on an exam will **not be changed once 2 weeks has elapsed** from the exam date. Please make an appointment to discuss individual answers. Every effort will be made to review lab exams. Instructor is available for individual review by appointment.

**Academic Honesty / Honor Code**

In this professional program we are particularly sensitive to students submitting independent work and to using complete and accurate referencing in complying with the University of Florida Rules - 6Cl- 4.0l7 Student Affairs: Academic Honesty Guidelines. Further details regarding the University of Florida honesty policy is available at: [http://www.dso.ufl.edu/judicial/procedures/academicguide.php](http://www.dso.ufl.edu/judicial/procedures/academicguide.php) and in your student handbook. All students are required to abide by the Academic Honesty Guidelines, the following pledge has been accepted by the University and is expected of all students: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” 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.**"

**Policy Related to Class Attendance**

**Attendance in Dissection Lab is mandatory.** Please contact the instructor as soon as possible if you are unable to attend class for any reason. Personal issues with respect to class attendance or fulfillment of course requirements will be handled on an individual basis. Make an appointment with the instructor to discuss. An unexcused absence will result in a loss of points from your dissection lab grade.
Policy Related to Make-up Exams
In extraordinary circumstances it may be possible to take an exam early or late. If for any reason you are unable to attend an exam at the last minute, you must notify the instructor as soon as possible by calling the front office and by email. Personal issues with respect to exams will be handled on an individual basis.

Accommodations for students with disabilities
If you require classroom accommodation because of a disability, you must first register with the Dean of Students Office (http://oss.ufl.edu/). The Dean of Students Office will provide documentation to you, which you then give to the instructor when requesting accommodation. The College is committed to providing reasonable accommodations to assist students in their coursework.

Counseling and Student Health
Students may occasionally have personal issues that arise in the course of pursuing higher education or that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the University of Florida Counseling Center, 352-392-1575, or Student Mental Health Services, 352-392-1171. Visit their web sites for more information: http://www.counsel.ufl.edu/ or http://www.health.ufl.edu/shcc/smhs/index.htm#urgent
The Student Health Care Center at Shands is a satellite clinic of the main Student Health Care Center located on Fletcher Drive on campus. Student Health at Shands offers a variety of clinical services, including primary care, women's health care, immunizations, mental health care, and pharmacy services. The clinic is located on the second floor of the Dental Tower in the Health Science Center. For more information, contact the clinic at 392-0627 or check out the web site at: www.health.ufl.edu/shcc
Crisis intervention is always available 24/7 from: Alachua County Crisis Center: (352) 264-6789. BUT – Do not wait until you reach a crisis to come in and talk with us. We have helped many students through stressful situations impacting their academic performance. You are not alone - do not be afraid to ask for assistance.

STUDENT RESPONSIBILITIES Specific to dissection:
1) A student is expected to attend the lecture and laboratory sessions each week for the complete scheduled class time. The student is responsible for the content in the "Anatomy Syllabus" as indicated in the course objectives. In addition, the student is responsible for selected content in "The Dissector's Guide" as indicated in the course objectives.

2) The only excused absence is for illness. If a student misses a lab because of illness, the student is expected to make up the time in the lab outside of class time. Once the time has been made up, inform Dr. Senesac in writing by email so the student is considered "excused". If a student is absent from lab without being excused by the instructor, points are subtracted from the dissection lab grade for each absence. Other special individual circumstances may be discussed with the instructor.
3) Each student is responsible for an **EQUAL share** of the dissection work. If the instructor observes during class time that a student is not doing his/her share of the dissection, the student will be notified. If the problem is not corrected by the next lab period following the warning, **points will be subtracted** from your dissection grade. Subsequent unheeded warnings will result in additional 5-point deductions from the final grade with each notification.

4) **Dissection of a region must be completed prior to the examination day** on that region. If dissection is not completed by this time, each partner on the side of the body not completed will have **5-points subtracted** from your **Laboratory Examination grade of that region**.

5) You are responsible for **bringing to lab each period**: gloves, an atlas, dissectors guide, dissection kit. You are not to use gloves provided for the TA’s or the instructor. If you are found to have taken gloves from the instructors supply you will have **points deducted** from your lab grade.

**ALL STUDENTS**

**SPECIAL JOINT DISSECTIONS** - Each student will be assigned to a special joint dissection. **You will present the joint and ligaments in lecture.** If you are not assigned a joint dissection this semester you will be assigned one the following semester. The actual joint dissection will be done outside of class time and presented to the class during assigned lab sessions. Timing of these assignments is directly related to dissection of that region. *See instructions for special dissections.*