HUMAN ANATOMY **SPRING 2025**
Anat 231 **Dr. Jake Sapiro**

TENTATIVE SCHEDULE

		LECTURE	**LABORATORY**
Tue.	Feb. 4	Introduction to Anatomy	Skeletal System (Pectoral Girdle)
Thu.	Feb. 6	**Quiz I***(Syllabus and pages 3-7 of the Study Guide)	
Thu.	Feb. 6	Cells and Histology	Skeletal System (Upper Limb)
Tue.	Feb. 11	Histology	Skeletal System (Skull)
Tue.	Feb. 11	**Quiz II*** (Terminology pages 8-12 of the Study Guide)	
Thu.	Feb. 13	Integumentary System	Skeletal System (Skull)
Tue.	Feb. 18	Integumentary and Skeletal System	Skeletal System (Axial Skeleton)
Tue.	Feb. 18	(**Quiz III)**	
Thu.	Feb. 20	Skeletal System	Skeletal System (Lower Limb)
Tue.	Feb. 25	Articulations	Histology
Thu.	Feb. 27	**Lecture Exam I** (through skeletal system)	Histology
Tue.	Mar. 4	Muscular System	**Review**
Thu.	Mar. 6	Muscular System	**Lab Exam I**
Tue.	Mar. 11	Cardiovascular System (blood)	Introduction to Dissection
Thu.	Mar. 13	Cardiovascular System (heart)	Muscular System (Head and Neck)
Tue.	Mar. 18	Cardiovascular System (vessels)	Cardiovascular System
Thu.	Mar. 20	Cardiovascular System (lymphatics)	Microscopy
Tue.	Mar. 25	Respiratory System	Muscular System (Pectoral Girdle)
Thu.	Mar. 27	Nervous System (Neurons/Glia)	Muscular System (Upper Limb)
April	1-3	Spring Break	
Tue.	Apr. 8	**Lecture Exam II** (through respiratory system)	Muscular System (Pelvic Girdle)
Thu.	Apr. 10	Nervous System (Brain)	Muscular System (Lower Limb)
Tue.	Apr. 15	Nervous System (Spinal Cord)	Muscular System (Trunk)
Thu.	Apr. 17	Meninges/ANS	Muscular System Project
Tue.	Apr. 22	Nervous System (Special Senses)	Review
Thu.	Apr. 24	Endocrine System	**Lab Exam II**
Tue.	Apr. 29	Digestive System (Upper GI tract)	Nervous System
Thu.	May 1	Digestive System (Lower GI tract)	Nervous System
Tue.	May 6	**Lecture Exam III** (through endocrine system	Thoracic Cavity
Thu.	May 8	Digestive System (accessory organs)	Thoracic Cavity

		LECTURE	LABORATORY
Tue.	May 13	Urinary System	Abdominal Cavity
Thu.	May 15	Reproductive System	Abdominal Cavity
Tue.	May 20	Reproductive System	Reproductive System
Thu	May 22	Development	Development
Tue	May 27	**Final Lecture Exam**	Review (**Microscopy Quiz)**
Thu.	May 29	**LAB EXAM III**	

*The first two quizzes are "take home" quizzes. They are to be turned in at the beginning of the class period. Late quizzes will not be accepted. These quizzes are open notes quizzes. You may use my lectures or our textbook as resources, but not friends, classmates, Wikipedia or any other external sources for these quizzes. If you use a term or concept on any exam or quiz that we did not use in class, you will be asked to demonstrate that knowledge. If you fail to do so, it is *prima facie* evidence of cheating.

Web site: http://anatandmore.us/jas/anat.html

The following items are required for the class:

Textbooks: Human Anatomy by Marieb, Wilhelm and Mallatt (6th edition or later) There are used books on-line.
Do not rent the book. Do not use the on-line version of the book.

Study Guide for Anatomy 231 by Sapiro (available on line) Please print the Study Guide and bring it to class.

Erasable Colored Pencils: A set of six or eight is sufficient. You will need them for lectures **and exams**. (Colored pens and markers don't work.)

Scantron 886 forms: You will need a total of 4 (one for each lecture exam). I will provide the answer sheets for the lab exams.

The following items are recommended but not required for the class:
Recorder for recording lectures

Course Objectives

Instructional Objectives: Upon successful completion of Anatomy 231F, the student will be able to:
1. Demonstrate an understanding of all the major areas of anatomy: ontogeny, microscopic anatomy, gross anatomy, systemic anatomy, regional anatomy, pathological anatomy, and comparative anatomy.
2. Describe the location, origin, function and general features of all mammalian organ systems.
3. Describe the anatomical interrelationships between all the organ systems.
4. Relate the structure with function at the cytological, tissue, organ and organ-system levels.
5. Analyze the structure and function of the major cellular organelles.
6. Demonstrate an understanding of the role surface area, distance and surface/volume ratios play in interpreting functional anatomy.
7. Identify the major tissues of the human body using a microscope.
8. Identify all the gross features of the major organ systems.
9. Demonstrate expertise in dissection techniques and use of the microscope.

Student Learning Outcomes: Upon successful completion of Anatomy 231F, the student will be able to:
1. Compare and contrast normal anatomy to abnormal anatomy associated with various diseases and conditions.
2. Identify histological and microanatomical structures.
3. Interrelate the structure and function of organs and organ systems.

CLASS POLICIES

I. Participation Policy

Participation, not merely attendance is mandatory. Under Title 5 California Administrative Code, Section 58004: A student may be dropped if no longer participating in the course. "No longer participating includes but is not limited to excessive absences."
The following criteria define participation:
1. Arrive on time to class and stay the entire class period.
2. Bring all of the materials necessary for that class, for example books, paper, pens, etc.
3. Turn in all assignments on time and complete.
4. Actively do assigned lab work.
5. Contribute to group projects.
6. Follow all of the rules and safety regulations of the class.
7. Take all assigned quizzes and exams.
8. Contribute to class discussions

II. Attendance Policy

You are expected to attend and participate in all lectures and labs. You may be dropped for excessive absences. If you miss a lecture or lab, it is your responsibility to find out what we did in class and to keep up with the work. If you miss a lecture exam you will be allowed to take one make-up exam usually given during the last week of class. Be warned, make up exams may be harder than the regular exams. You may only take one make up exam per semester. There are no make-ups for lab exams or quizzes.

Arrive on time to class. If you miss more than 10 minutes of a lab, it counts as an absence.

If you miss a class, you may be able to attend a different section to make it up.

III. Drop Policy

If you wish to drop the class, it is your responsibility to do so in a timely manner. If you have not dropped the course by the drop deadline you must receive a grade for the course. Grades of "Incomplete" will only be given to those students who are passing the course, but missed the end of the semester.

If you are not participating as defined in section I., or have excessive absences, you may be dropped from the course.

If you choose to drop the course, understand that a "W" will appear on your transcript and that more than one or two "W's" will have a negative impact on your ability to get into a health-related program. Understand, however, that a "W" is better than an "F" or a "D" on your transcript. If you get an "F" or "D" and repeat the course, the failing grade is not counted in your GPA, but it remains on your transcript forever.

IV. Cheating Policy

If your behavior makes me suspect that you cheated in any way (as defined in the College catalog) you will get a 0 for the exam. A report will be submitted to the vice president of student services for further action such as an F for the course and/or expulsion from the college. Cheating on an on line quiz or exam includes using any outside source (friend, Wikipedia, or any other source other than your notes or the assigned textbook). Cheating on an in-class exam includes using any resource that is not specifically approved in advance. If, on an exam or quiz, you include a term or concept which we did not cover in class, you will be given an opportunity to demonstrate that you have that knowledge, otherwise, it is *prima facie* evidence of cheating.

V. Breakage Policy

Many of the materials you will be handling in lab are fragile and expensive. If you are not careful and break or leave a permanent mark on something, this shows a careless disregard of the rules. You will lose up to 35 points.

VI. Cell Phones

Turn off your cell phone or turn it to vibrate mode before entering class. You may only use your cell phones in class after lecture to take pictures of the board, or in the last 10 minutes of lab to take pictures of the lab material.

VII. Copyright

All material provided to you, including on the website and recordings you take in class are copyrighted by Dr. Sapiro. You may share your recordings of the lectures and materials laid out in the labs with other students currently enrolled in the class, but otherwise they may not be reproduced or distributed without the expressed permission of Dr. Sapiro. Other students' grades, exams, quizzes, etc. may never be shared.

VIII. Student Behavior:

Students are expected to behave in a respectful and dignified manner while in the classroom and on campus. Any behavior or activity that disrupts another person's ability to learn or carry out their job will not be tolerated. Please refer to the student code of conduct in the Fullerton College catalog: https://catalog.nocccd.edu/fullerton-college/college-policies-rules/standards-student-conduct-discipline-policy/

IX. Nondiscrimination Statement:

All students should be able to pursue their educational and career goals at Fullerton College free from discrimination. The college nondiscrimination statement can be found in the Fullerton College catalog - https://catalog.nocccd.edu/fullerton-college/college-policies-rules/nondiscrimination-statement/

X. Accessibility:

Should you require accommodations for a documented disability, please contact Disability Support Services. If DSS refuses to accommodate your documented disability, please let me and the Dean of Natural Sciences know immediately.
(https://catalog.nocccd.edu/fullerton-college/support-programs-services/disability-support-services/)

XI. Safety:
Please take note of the safety features in and close to your classroom, the location of fire alarms and study the posted evacuation route. The most direct route of egress may not be the safest because of the existence of roofing tiles or other potentially hazardous conditions. Similarly, running out of the building can be dangerous during severe earthquakes. Do not use an elevator during an earthquake. During strong quakes the recommended response is to duck – cover- and hold until the shaking stops. Follow the guidance of your instructor. Your cooperation during emergencies can minimize the possibility of injury to yourself and to others.
Please review the signs in your classroom describing how to respond to an active shooter on campus.
General safety instructions for the laboratory can be found in the Laboratory Manual and will be discussed during the first class session. Safety concerns that are specific to individual labs will be discussed and demonstrated prior to that lab session.
Please be aware of your surroundings when you are walking on campus, especially if your class is at night. Utilize the buddy system if possible. Contact Campus Safety for emergencies on campus: 714-992-7777, or dial 9911 from a campus phone or 911 from a cell phone.

VIII. Grading Policy

You earn your grade, my job is merely to record it. This is a very straight-forward class. There are specific things for you to know, and either you know the material or you don't. This is a pre-professional class, and therefore there are certain expectations as to the content and rigor of this class. You will be graded almost exclusively on your knowledge of the material as demonstrated by your performance on the exams. Because this is a pre-professional class with very specific requirements, the opportunities for extra credit are very limited. There will be extra credit questions on lecture exams. In addition there will be some occasions in which I will award a few points for going beyond the scope of the class.

Exams will be graded and returned to you promptly during the semester and cumulative grades will be posted. It is your responsibility to go over the exams and grades to make sure there are no errors in scoring. Exams that are not picked up within two weeks will be discarded. Graded final lecture and lab exams will be available for you to look at, but I will keep them in my files.

TENTATIVE GRADING FORMULA:

Lecture Exams (100 pts. each)	300 points	A = 90 - 100%
Lab Exams (70 pts. each)	210 points	B = 80 - 89%
Final Exam.	120 points	C = 70 - 79%
Quizzes	45 points	D = 60 - 69%
Dissection, Participation	35 points	F = 0 - 59%
Muscle Project	20 points	
Total	730 points	

If you have any questions about the lecture or lab material or any of the assignments, please see me during office hours, in lab, after class or e-mail me. Remember, no one is born knowing Anatomy.
Therefore, it is to your credit to show that you are smart enough to ask for help when you need it.

Dr. Sapiro's e-mail: **jsapiro@fullcoll.edu** If you wish to email me, know that I try to check my messages and respond in a timely manner. However, I am not on my computer 24/7, so your answer may not be immediate.
Web site: http://anatandmore.us/jas/anat.html

Office hours: TBD

I am also available on Zoom or by appointment.

Frequently Asked Questions about the class

Q. Will we be using Canvas?
A. I do not like Canvas. I find that it creates a barrier between me and my students. I have created my own website which has the information students need. http://anatandmore.us/jas/anat.html
Also, I am always available to answer student questions.

Q. Is there homework for this class?
A. I prefer to treat my students as responsible adults. At the end of each section of the study guide there are questions and assignments. It is up to you to do them, but I will not collect them. I will be thrilled to look over your drawings and answer your questions, so that you can learn the material and get a better score on the test. In order to encourage you to answer the questions and not be afraid of making mistakes, I will not grade you on your homework answers.

Q. I am really nervous about having to do dissection, is that going to be a problem?
A. On the first day of dissection, some students are a little hesitant. Rest assured, you will very quickly get used to it. I have never had a student that was still bothered by dissection after the first two weeks.

Q. How many hours per week should I expect to be studying?
A. The class meets six hours per week. That means that the **minimum** study time is expected to be 12 hours per week. In my experience, many students require about three hours of study time per hour of class time, so 2 - 3 hours per day, every day, in order to pass the class. (**Note**: Studying 8 or more hours in one day does not work. You really need to study at least 4 - 5 days per week.)