HUMAN ANATOMY - Biol 11 **Fall 2023** **Dr. Katherine T. Schmeidler**

LSB 222 - in person, in lab unless otherwise stated *ZOOM - synchronous meetings & TBD*

THIS SCHEDULE IS APPROXIMATE, AND SUBJECT TO CHANGE

class and conference sessions using Zoom (or the equivalent) may be recorded

date		topics for week [number of posted lectures]	laboratory
Aug. 22	1 - 3	Introduction; body organization; cells [3]	orientation; microscopes
24	3 - 5	Tissues, membranes [2], embryology intro. [1]	tissues, membranes
MUSCULOSKELETAL SYSTEM			**chapters 6 - 13**
29	7 - 8, 13	Integumentary system [2] skeleton [2]	bone / skull; skin
31	4, 6	Bone tissue, bone structure [1]	axial skeleton, skin
Sept. 5	6 - 8	Axial & appendicular skeleton	axial, appendicular skeleton
7	9	Articulations, movement [1]	skeleton
September 10, 2022		***LAST DAY TO DROP WITHOUT A "W"***	
12	4, 10	Muscle tissue, organization; movement [2]	cat dissection - muscles
14	**1-9**	**MIDTERM EXAM I**	**PRACTICAL I**
19	11 - 12	Muscle groups [4]	" " " "
NERVOUS SYSTEM			**chapters** 14 - 19
21	4, 14	Overview [1]; histology [1]	" " " "
26	15 - 16	CNS: Spinal cord [2*], meninges, nerves [1]	muscle, cart, bone hist
28	15 - 16	Nervous system: CNS; brain [2]	cat dissection - muscles
Oct. 3	15 - 17	Nervous system: CNS; brain; pathways [1*]	joints, levers
5	17 - 18	PNS; ANS [1*]	cat dissection - muscles
10	17 - 19	CNS: special senses [1*] - eye [1*], ear, etc	brain dissection
12	19	CNS: special senses - eye, ear[1*], etc	special senses
17	**10-19**	**MIDTERM EXAM II**	**PRACTICAL II**
19	20	ENDOCRINE SYSTEM - chapter 20 [1*]	histology, CNS, endocrine
CARDIOVASCULAR & RESPIRATORY SYSTEMS			**chapters 21 - 25**
24	21 - 23	Blood [1*], heart [1*], mediastinum	cat vessels & sheep heart
26	22 - 23	Circulatory [2*] & lymphatic system	blood vessel histology
31	22 - 24	Circulatory & lymphatic system [1*]	cat vessels & sheep heart
Nov. 2	23	Specializations (portals, shunts, etc)	histol – endocrine, circ
November 17, 2022		***LAST DAY TO DROP WITH A "W"***	
7	25	Respiratory system [2*]	
9	25	Pharynx [1*]	GI & UG histology
14	26	GI tract structure [3*]	ventral cavity
16	26	GI tract structure [3*]	ventral cavity
DIGESTIVE SYSTEM			**chapter 26**
21	**20-26**	**MIDTERM EXAM III**	**PRACTICAL III**
28	26	GI tract (cont.);accessory organs	GI & UG histology
UROGENITAL SYSTEM and REPRODUCTION			**chapters 27 - 28**
30	27	Embryology of urogenital systems [1*]	kidney
Dec. 5	27	Kidney; urinary system [1*]	kidney
7	28	Male & female [1*] reproductive systems	GI & UG systems
12	28	Male [1*] & female reproductive systems	GI & UG systems
14	28	Meiosis; histol. [1*] ; revisit embryology [1*]	**all lab review**
19	**all: esp 22-28**	**FINAL EXAM**	**FINAL PRACTICAL**

"pre-QUIZ" usually due EVERY Monday (announced) - except prior to exam week

other quizzes & homework may be announced or may be not announced

HUMAN ANATOMY - BIOL 11
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please visit the ***Canvas*** ***site and Human Anatomy webpage***

Office Hrs: Th 10-11am, T-Th 10-11pm; MW 7-7:30 & 8:30-9 pm (on-line by arrangement) and by appointment
class and conference sessions using Zoom (or the equivalent) may be recorded

Anatomy is the study of body structure. Human gross anatomy is the study of macroscopic structures of the human body, generally those visible without requiring special optics such as microscopes. Microanatomy, often called histology, is the study of structures generally requiring microscopic examination. This course focuses on identifying the major structural components of the human body, large and small, and understanding these structures in the context of their function.
Further details of this course, including learning objectives, are posted on the "details page" of the on-line schedule.

The emphasis of this course is to familiarize the student with the structures comprising the human body, and their functions and inter-relationships. Students will be expected (minimally) to
1. Define key terms related to anatomical direction, spatial relationships, histology, and gross anatomy.
2. Use the compound light microscope.
3. Analyze general and specific tissue types using the compound light microscope.
4. Analyze the structural makeup of human organ systems. * (SLO)
5. Analyze the structural makeup of individual organs within the various organ. systems. * (SLO)
6. Analyze the relationship between structure and function at the cell, tissue, organ, and system level.
7. Describe structural or anatomical changes that occur in disease, injury or aging of human body systems.
8. Analyze the surface area to volume relationships at the cell, tissue, organ, and system levels and explain its functional significance.
8. Analyze the development of organs and organ systems at the embryonic stage.

GRADES ARE BASED ON THE EXAMS & QUIZZES INDICATED IN SCHEDULE, CLASS-TIME, LAB PARTICIPATION, AND COMPLETION OF ADDITIONAL WORK TO BE ASSIGNED.
The weight (point value) of each component is assigned as follows [*these may be adjusted slightly as needed*] :

midterm exam 1	@	85 points	=	85
midterms 2 & 3	@	115 points	=	230
final exam	@	135 points	=	135
4 lab practical exams	@	75 points	=	300
class-work, presentations, participation, etc including quizzes (usually 5-10 points each)			=	180
Total			=	**900**

exams and quizzes may include multiple choice, fill-in, matching, short or long answer, drawings, ***etc*** .

"lab" and "lecture" ***content*** are equal components of the course and may be assessed in any format

Completion of all assignments is required. **If you must miss an exam, quiz, or class work, make arrangements as soon as possible -- if possible, before the missed class -- for a make-up opportunity** ***if one is possible. Not all work can be "made up", for example lab practica and group work.*** **Be warned, a make-up exam may be more difficult than the class exam & will probably be administered at final's class. You may make up** ***only one midterm exam - not the final exam !***

Final letter grades are assigned: ≥90% = A; 80-89% = B; 70-79% = C; 60-69% = D; <60% = F

To receive ***academic accommodations****, students need to privately present to me an Accommodation Form from the Disability Support Programs and Services (DSPS), per published college procedures. To obtain the Accommodation Form, please contact the DSPS office at (949)451-5630 or at ivcdsps@ivc.edu DSPS is located at SSC 171*

IT IS THE STUDENT'S RESPONSIBILITY TO DROP A COURSE OFFICIALLY IF THE STUDENT WISHES TO AVOID AN "F".

THE INSTRUCTOR *MAY* DROP STUDENTS FOR NON-ATTENDANCE, BUT THIS IS *DISCRETIONARY*. STUDENTS WHO DO NOT DROP, BUT DO NOT COMPLETE THE WORK WILL RECEIVE "F"

Students who are still officially enrolled past the Drop with a "W" Grade deadline and who have been excessively absent per the attendance policy may be assigned a FW grade. The FW counts the same as a F grade in the grade point average, but denotes you stopped attending class and did not fail due to lack of mastery of the course material.

The FW grade may impact eligibility for some types of financial aid. See the Financial Aid Office for more information.

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READING ASSIGNMENTS; EXAMS: The text is an information resource. Therefore, text chapters listed for each lecture are not exclusive - there may be pertinent information elsewhere in the text. Additional reading may be assigned in lecture. Exams will be based primarily on material covered in lecture - including on-line posted lectures in Canvas, lab, and posted handouts, and parts of the text specified during lecture. Handouts, vocabulary lists, etc. are intended as study aides and references to assist note-taking during lecture. These do **NOT** limit the material required for examinations. That is, even vocabulary and diagrams not included in any handout but included in class and/or posted lectures or Power Points may still be used and required for exams. It is especially important for students to recognize familiar terms for anatomical structures. These common names will seldom be included in handouts; it is expected that students will become familiar with common usage **and spelling**. Correct spelling of anatomical terms, and any other words where misspelling might be misleading or confusing, will be counted "wrong".

Exams may include any combination of short answer and multiple-choice questions, open-ended essays, and diagrams (drawings, sketches). Each exam will be based primarily on the unit(s) covered since the last exam. However, the nature of this class and the study of Anatomy is hierarchical. Thus, to some extent, each exam is also cumulative. While the final exam will focus on the last portion of the class, it will also be deliberately cumulative. Lab exams will be discussed in lab. Any combination of *identification of structures, knowledge of their functions and inter-relationships, and demonstrations of students' own dissections and ability to dissect* may be on any practical exam or assignment.

ACADEMIC HONESTY: IVC Regulations and guidelines regarding academic honesty will be followed and enforced. Cheating or plagiarism may result in an F on the assignment involved, the entire course, or, in even more serious cases, College disciplinary action may be taken. If you have any questions or confusion about what is considered honest (and what is ***not***) be sure to clarify these definitions right away! There are no "second chances".

On all exams, quizzes, and other assessments for which "open resources" are not permitted, **ALL VOCABULARY TERMS AND CONCEPTS MUST BE THOSE USED IN THIS COURSE.** Use of terminology from other sources ***will be interpreted*** as having come from sources *found during the assessment* and thus ***evidence of academic dishonesty***.

DO NOT CHEAT - DO NOT COPY FROM A BOOK OR FROM EACH OTHER OR FROM A FRIEND - YOUR WORK MUST BE IN ***YOUR OWN*** WORDS - any suspicious work will earn zero (0) points which can only be earned back in an oral conference to demonstrate that you have the information clearly in your own mind.

All IVC and SOCCCD regulations and guidelines will be followed and enforced.
See the IVC Catalog and MySite for details.

TEXTS: *REQUIRED:*

McKinley, M., O'Loughlin, VD., and Pennefather-O'Brien, E. 2021 Human Anatomy 6/e ***or similar***
for complete package with CONNECT access (IVC discount at bookstore): ISBN 978-1-30-757900-0

RECOMMENDED: **contact instructor for "or similar" advice**

Schmeidler, K. : lecture note-taking guide & other resources - see class website

SUGGESTED/OPTIONAL - the internet may suffice

Eroschenko, V.P. di Fiore's Atlas of Histology, 13th edition. 2017. ***or similar***
Kapit, W. & Elson, L.M. The Anatomy Coloring Book, 4rd edition. 2014. ***or similar***
Strete, D & Creek, C. An Atlas To Human Anatomy. 2000. ***or similar***
Tallitsch, RB & Guastaferri, R. Histology: An Identification Manual [free download] ***or similar***

NOTE: all papers including exams will be returned to student if possible. IVC regulations state that paperwork will be held for 3 months after the end of a semester. After that period, all uncollected work will be discarded. Please note that it is ***your*** responsibility to retain all of your records. No reconsideration of any grade is possible without evidence, and it is the student's responsibility to demonstrate the basis of any grade change.

IT IS THE STUDENT'S RESPONSIBILITY TO RECOVER THESE MATERIALS!!

DO NOT QUOTE - USE YOUR OWN WORDS

BE SURE TO USE CORRECT CITATION FORMAT (when citing sources is necessary)
see web page for guidance

PROOFREAD AND SPELL CHECK ALL WRITTEN WORK
-- to avoid embarrassment

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