University of Southern California – Department of Biological Sciences
Human Biology 301L – Human Anatomy (4 units), Spring 2019

Instructor: Kurt E. Kwast, Ph.D.
Office Hours: Monday 12:00 am - 1:30 pm & Wednesday 12:30 pm – 2:00 pm (AHF B39)
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Lecture: MWF 10:00 - 10:50 am; THH 102

Course Description:
Exploration of the anatomical structures of the human body to gain a fundamental understanding of the structure and function of body organs and systems and their interactions, emphasizing the tissues and structures that comprise the major organ systems of the body as well as functional implications of these structural relationships.

Learning Objectives:
The primary objective of HBIO 301 is to ensure that students are able to recognize and have a fundamental understanding of the function of the structural components of the human body.

- Students should develop a vocabulary of appropriate anatomical terminology in order to be able to effectively communicate information related to anatomy.
- Students should be able to identify and understand the different levels of organization (i.e., molecules, organelles, cells, tissues, organs, organ systems, and whole organism) and how simpler levels contribute to more complex ones.
- Students should be able to identify the structural components and have a fundamental understanding of the functional attributes of each of the body's organ systems and the interrelationships within and between them.
- Students should be able to use anatomical knowledge in order to predict physiological consequences and knowledge of function to predict anatomical features.
- Students should be able to understand the pathophysiology of common diseases as well as use critical thinking skills to make real-world connections between life-style choices and human health.

I. Texts and On-Line Access:
Required:

1. ***Human Anatomy*.** 8th edition, Marieb, E. N., Wilhelm, P. B., and J. Mallatt. Pearson Benjamin Cummings, San Francisco, CA, 2017 (ISBN: 9780134243818) with **Modified Mastering A & P**/ET VP A/C, 8/E, ISBN 9780134568034
2. ***Human Anatomy Laboratory Manual***. Matveyenko, M. A. B., and E. M. Kolb.

II. Grading Outline:

In-class Learning Assignments	50 pts.
Pre-lecture & Homework Assignments	150 pts.
Midterm 1	120 pts.
Midterm 2	120 pts.
Midterm 3	120 pts.
Final	190 pts.
Lab	250 pts.
TOTAL	**1000 pts.**
JEP Extra Credit	+25 pts.

- Individual exams and labs will be scored but not assigned a letter grade. Only the final point tally will be assigned a letter grade. The grading scale will be based on a traditional grading scale as follows:

Letter Grade	Point Ranges	Grade Point Value
A	930-1025	4.000
A-	900-929	3.667
B+	870-899	3.333

B	830-869	3.000
B-	800-829	2.667
C+	770-799	2.333
C	730-769	2.000
C-	700-729	1.667
D+	670-699	1.333
D	630-669	1.000
D-	600-629	0.667
F	<600	0.000

- A request to take a make-up exam must be accompanied by evidence of a university-sanctioned excused absence (*i.e*, a letter from a doctor, athletic release, etc.) and must be made before the date of the scheduled exam. Make-up exams may be different from the scheduled exam (*e.g.*, essay) and may be proctored by other personnel.

III. Laboratory Component (PED B7):

Lab Director: Emi Embler, Ph.D. (eembler@usc.edu)

Lab Instructors: Tamara Espinet, Ed.D., Christopher Conow, Takeshi Matsui, and Cecily Pulver

IV. Tentative Lecture Schedule:

Date	Lecture Topic	Marieb et al. (8th ed.)
Jan. 7	Introduction / Body Orientation and Gross Anatomy	Ch. 1
Jan. 9	Body Orientation and Gross Anatomy	Ch. 1
Jan. 11	Basic Embryology/Tissues	Ch. 3 & 4
Jan. 14	Tissues	
Jan. 16	Tissues/Integument	Ch. 4-5
Jan. 18	Integument	Ch. 5
Jan. 21	**MARTIN LUTHER KING JR HOLIDAY**	
Jan. 23	Bone & The Skeletal Tissues	Ch. 6
Jan. 25	The Axial Skeleton	Ch. 7
Jan. 28	Axial/Appendicular Skeleton	Ch. 7 - 8
Jan. 30	Appendicular Skelton	Ch. 8
Feb. 1	Joints / Articulations	Ch. 9
Feb. 4	Joints / Articulations	Ch. 9
Feb. 6	**MIDTERM I**	
Feb. 8	The Muscular System	Ch. 10
Feb. 11	The Muscular System/ Skeletal Muscles	Ch. 10
Feb. 13	Skeletal Muscles	Ch. 11
Feb. 15	Skeletal Muscles	Ch. 11
Feb. 18	**PRESIDENT'S DAY HOLIDAY**	
Feb. 20	The Nervous System	Ch. 12
Feb. 22	The Central Nervous System (CNS)	Ch. 13
Feb. 25	The Central Nervous System (CNS)	Ch. 13
Feb. 27	The Central Nervous System (CNS)	Ch. 13
Mar. 1	The Peripheral Nervous System (PNS)	Ch. 14
Mar. 4	Special Senses	Ch. 16

Mar. 6	**MIDTERM II**	
Mar. 8	Special Senses	Ch. 16
Mar. 10 - 17	**SPRING BREAK**	
Mar. 18	Autonomic Nervous System	Ch. 15
Mar. 20	The Endocrine System	Ch. 17
Mar. 22	The Endocrine System	Ch. 17
Mar. 25	Blood	Ch. 18
Mar. 27	The Heart	Ch. 19
Mar. 29	The Heart	Ch. 19
Apr. 1	Blood Vessels	Ch. 20
Apr. 3	Blood Vessels / The Lymphatic System	Ch. 21
Apr. 5	The Lymphatic System	Ch. 21
Apr. 8	The Respiratory System	Ch. 22
Apr. 10	**MIDTERM III**	
Apr. 12	The Respiratory System	Ch. 22
Apr. 15	The Digestive System	Ch. 23
Apr. 17	The Digestive System	Ch. 23
Apr. 19	The Urinary System	Ch. 24
Apr. 22	The Urinary System	Ch. 24
Apr. 24	The Reproductive System	Ch. 25
Apr. 26	The Reproductive System	Ch. 25
May 6	**Semi-Comprehensive FINAL EXAMINATION 8:00 – 10:00 am**	

V. Relevant Human Biology BS & BA degree objectives addressed in part by this course:

- Students should develop a deeper comprehension of the central and cross-disciplinary concepts of human biology, which include bioenergetics, the interrelationship of human form and function, physiological homeostasis, and biomechanics.
- Students should develop proficiency in modern methodologies pertinent to research in biological and medical sciences.
- Students should be able to think critically, analyze, synthesize, and use information to solve real-world problems.
- Students should develop sufficient depth of knowledge and skill for graduate study in the health professions or other biology-related disciplines or entry-level employment in a wide variety of health-related fields.

VI. Academic Accommodations:

Any student requesting academic accommodations based on a disability are required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (the instructor) as early in the semester as possible. DSP is located in Student Union (STU) 301 and is open 8:30 - 5:00pm Monday – Friday. The phone number for DSP is (213) 740-0776.

VII. Academic Integrity:

Students who violate University standards of academic integrity are subject to disciplinary sanctions, including failure in the course and suspension from the University. Since dishonesty in any form harms the individual, other students and the University, academic integrity policies will be strictly enforced. I expect you will familiarize yourself with the Academic Integrity guidelines found in the current SCampus.

VIII. Academic Integrity Violations:

- Academic dishonesty/misconduct (plagiarism, cheating, unauthorized collaboration, etc.) will not be tolerated. All academic integrity violations will result in a grade sanction and will be reported to the Office for Student Judicial Affairs. It is your responsibility to "reasonably" protect your own work from the plagiarism of others.
- If plagiarism is detected on a group project, all members of the group will be held responsible.

- You are expected to be familiar with the Academic Integrity guidelines found in the current SCampus (student guidebook). An electronic version is available at http://usc.edu/scampus.

IX. Disruptive and Threatening Student Behavior:

Behavior that persistently or grossly interferes with classroom activities is considered disruptive behavior and may be subject to disciplinary action. Such behavior inhibits other students' ability to learn and an instructor's ability to teach. A student responsible for disruptive behavior may be required to leave class pending discussion and resolution of the problem and may be reported to the Office of Student Judicial Affairs for disciplinary action.

X. Blackboard:

Notes will be periodically posted on blackboard. However, the information posted on blackboard is not the only material that will be on the exam. If you attend class regularly you will be updated on the status of lecture notes and course material/announcements.

XI. Electronic Devices:

Please turn off or disable all cell phones or other electronic communication devices during class time. Using a laptop in class to take lecture notes is permitted. However, please turn off your browser, email, messaging and any other programs that do not involve the course material.