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MSA 212
MW 9:35-12:50
sec. #0260
OFFICE HOURS: 9:15-9:35 AM [MSA 212]

SPRING 2015
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HUMAN ANATOMY

Prerequisites: College Biology. I *strongly* recommend College Biology with a grade of “B” or better **AND** English 101 with a grade of “B” or better.

Anatomy is a *very* rigorous course that requires considerable discipline, time and dedication. Students are expected to learn large amounts of material. A significant number of students find the course overwhelming and may drop or fail.

Course Description: This course presents the structure of the human body by subdividing it into individual body systems. The functional anatomy of each level of organization is then studied from the microscopic level of organization to the gross (macroscopic) level. In addition, the embryological development of each body system and selected pathologies will be examined

Laboratory exercises develop skills of observation, investigation, identification, discovery and dissection. Exercises include the examination of histological slides, photomicrographs, X-Rays, models, charts, videotapes, human skeletons, a complete dissection of a cat, and examination of human organs.

This course is intended to meet the requirements of students majoring in nursing, physician’s assistant, respiratory therapy, physical therapy, occupational therapy, dental hygiene, psychology, physical education, and life sciences, or for those who wish to extend their knowledge of the human body beyond the scope of introductory biology. Anatomy 1 is a prerequisite for Human Physiology.

Student Learning Objectives: A student who completes this class will be able to explain:

- (1) human organ system gross anatomy
- (2) the microanatomy of body organ system
- (3) the embryological development of the human
- (4) anatomical & clinical vocabulary and terminology
- (5) human surface anatomy
- (6) human pathology

Student Learning Outcomes:

1. Name the systems of the human body, their general functions, the major organs that make up these systems and the general contribution each organ makes to the system.

As assessed by successful completion of a multiple choice or matching examination.

2. Identify microscopically and describe the structure and basic function of the tissue and cell types used to make up the major organs of the human body.

As assessed by successful completion of a multiple choice or matching examination and a practical examination to assess proficiency at using a microscope.

3. You will also select a slide (trachea, ureter, white fish blastula, blood smear etc.) for a pass/fail practical exam having your student apply their microscope focusing technique to focus and (possibly) identify a specific tissue, or identify the lumen using the ocular pointer, or identify a specific formed element (e.g. neutrophil) on a blood smear.

4. Identify the names and processes of the human skeleton using skulls and disarticulated bones.

5. Each student will be able to independently

- identify and safely use the basic instruments of dissection (scissors, scalpel, forceps, probe) .

- perform the basic dissection techniques of identifying, exposing, and/or removing tissues and organs and other structures.

- demonstrate dissections to others (i.e. classmates and instructor)

Required Texts & Materials:

S.A. Fink; Human Anatomy Lecture Outline; BioBooks Pub.; 2011

E. Marieb; Human Anatomy Laboratory Manual with Cat Dissections;
(6th ed.); Benjamin Cummings; 2011 [ISBN 0-321-66706-9]

You are expected to bring both the Lecture Outline & Lab Manual to every class meeting.

E. Marieb, J. Mallatt & P. Wilhelm; Human Anatomy (6th ed.); Benjamin Cummings; 2011 [ISBN 0-321-61611-1]

Box of colored pencils and/or pens that include blue, red, yellow, orange, green and black

Several #1 (or #2) soft lead pencils

A good eraser

About 9 Scan-Trons (#882) for computer scoring

Dissection Kit (including scissors, probe, forceps & scalpel)

Optional Texts & Materials:

Rubber surgical (or disposable-type) gloves

Laboratory apron or coat

K. Moore & T. Persaud; Before We Are Born – Essentials of Embryology and Birth Defects (7th ed); W.B. Saunders; 2007 [ISBN 1416037055]

McMinn & Hutchings; Color Atlas of Human Anatomy; Mosby-Yearbook Publishers; 1993

T. Rust; A Guide to Anatomy & Physiology Lab (2nd ed); Southwest Educational Enterprises; 1986
[ISBN 0-937029-00-9]

Chapter Summaries & Practice Quizzes & Exams & Cat References:

<http://www.professorfink.com>

ADVICE BEFORE YOU TAKE ANATOMY:

<http://www.videojug.com/film/study-tips-for-anatomy-class>

Practice Quizzes & Answers:

http://highered.mcgraw-hill.com/sites/0072907932/student_view0/

http://highered.mcgraw-hill.com/sites/0072495855/student_view0/

Lecture Examination Schedule (Tentative):

Lecture Examination 1.....	MARCH 11 (Wed)
Lab Examination 1.....	MARCH 11 (Wed)
Lecture Examination 2.....	April 1 (Wed)
Lab Examination 2.....	April 1 (Wed)
Lecture Examination 3.....	MAY 11 (Mon)
Lab Examination 3.....	MAY 11 (Mon)
FINAL EXAMINATION..... (comprehensive)	June 3 (Wed)

Computation of Course Grade:

5 highest Lecture & Lab.....	65% of Course Grade
Final Examination.....	35% of Course Grade

Assuming you take all 6 lecture & lab examinations, the lowest one will be dropped, and the 5 highest will count 65% towards your Course Grade. . About 55% of the questions on the Final Exam will come from “older information” and 45% from the information presented after the 3rd Exam.

Lecture examinations will consist of objective-type questions (ie., True/False; Multiple Choice; & Matching questions) that will be answered on SCAN-TRON #882 forms.

Lab Exams will consist mostly of fill-in and short answer questions.

You will be expected to provide SCAN-TRON 882 forms (available at the bookstore) and a soft lead pencil (no. 1 or no. 2) and a good eraser for each examination. The Final Examination is comprehensive for the entire semester. **There are no make-up examinations.**

Grading Policy:

90 - 100%	A
79 - 89%	B
63 - 78%	C
50 - 62%	D
below 50%	F

Attendance Policy:

Regular class attendance and performance of laboratory work will be considered in the determination of the student's Course Grade. Roll will be taken. There is a strong correlation between poor attendance and poor grades.

You are responsible for information, exam announcements, date changes, etc. presented in class, whether or not you are present

Students who are given add slips must complete the process by the 3rd class meeting. No replacement add slips will be signed.

Withdrawal from Class:

You are responsible for your credit and enrollment status. Any student withdrawing from class must inform the admissions office of this decision. **Students failing to follow the correct procedure for withdrawals will receive a grade of "F" for the semester. No withdrawals are permitted after Friday, May 8.**

(see Schedule, page 1).

Laboratory Guidelines:

1. You are **NOT** permitted to remove any materials from the classroom at any time.
2. At the end of lab-time, all materials must be returned to where they are kept, and the table-top cleared and cleaned-up.
3. There is no eating in the classroom.

Cheating/Academic Dishonesty:

Each student is expected to do his/her own work on all assignments, reports, examinations, etc. **CHEATING ON AN EXAM WILL RESULT IN AN "F" FOR THE COURSE.**

Here is a list of some actions that are considered cheating:

NO TALKING DURING THE EXAM.

KEEP YOUR EYES ON YOUR OWN EXAM.

USING NOTES OF ANY KIND (ON CARDS, STRIPS OF PAPER, DESK TOP, ETC.) DURING AN EXAM IS NOT PERMITTED.

Showing a fellow student your exam, or passing information in any way is not permitted.

Place your answer sheet(s) directly in front of you.

If you have a question, quietly walk up to the instructor and whisper your question.

Translation dictionaries are not permitted.

Changing the answers on a returned Exam & claiming it was scored wrongly.

All of these demonstrate a lack of Honesty & Integrity which is Essential in all Health Care Professions (& in fact, in all jobs, all relationships, & in all Areas of Life.)

Recommendations for Succeeding in Class:

- 1. Expect to Work. This is not supposed to be easy.**
- 2. Get to class on time, every time, and stay the whole time.**
 - Never miss class unless you're dead, & take good notes.
- 3. Find someone in the class to contact if you miss a meeting.**
- 4. Be organized! Use a daily calendar to set times for regular studying for each of your classes.**
- 5. Study & Review each night the class is given.**
 - Learning is easier if you schedule time daily to read, to think & review.
 - Every time you study. spend at least 10 minutes reviewing previous lessons. (These "refresher shots" are the secret for long-term memory.)
 - Focus your studying on the class Lecture Notes.
 - Read the relevant chapters in your textbook; hi-lite pertinent lines, & add these notes to your class notes (never read without writing).
 - Use the CD-ROM & Web-Sites.
 - Use associations to help you remember things.
 - Prepare note cards and carry them with you to review.
- 6. Increase your studying 1 week before a scheduled Exam!!**
- 7. Anything you turn-in (exams, lab reports) should look neat.**

TENTATIVE SCHEDULE OF TOPICS
(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
1	M	Feb 9	Organization of the Human Body Terminology Cytology	c-1 c-2	Organization of the Human Body Terminology Cytology	Ex-1 Ex-2 Ex-3 Ex-4
	W	Feb 11	Cytology	c-2	Cytology	Ex-4
2	M	Feb 16	<u>NO CLASS:</u> PRESIDENT'S DAY	c-2	Cytology	Ex-4
	W	Feb 18	Cytology Embryology & Human Dev. Skeletal System <u>[FRIDAY Feb 20:</u> <u>Last Day to Avoid</u> <u>a "W" on</u> <u>Permanent</u> <u>Record]</u>	c-2 c-3 (755-761) c-6 c-7 c-8	Cell Division Skeletal System	Ex-4 Ex-7 Ex-8 Ex-9
3	M	Feb 23	Cytology Embryology & Human Dev. Skeletal System	c-2 c-3 (755-761) c-6 c-7 c-8	Cell Division Skeletal System	Ex-4 Ex-7 Ex-8 Ex-9

TENTATIVE SCHEDULE OF TOPICS
(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
	W	Feb 25	Cytology Embryology & Human Dev. Skeletal System	c-2 c-3 (755-761) c-6 c-7 c-8	Cell Division Skeletal System	Ex-4 Ex-7 Ex-8 Ex-9
4	M	March 2	Cytology Embryology & Human Dev. Skeletal System	c-2 c-3 (755-761) c-6 c-7 c-8	Cell Division Skeletal System	Ex-4 Ex-7 Ex-8 Ex-9
	W	March 4	Histology: Tissues	c-4	Histology Skeletal System	Ex-5 Ex-7 Ex-8 Ex-9
5	M	March 9	Histology Integument	c-4 c-5	Histology Skeletal System	Ex-5 Ex-7 Ex-8 Ex-9
	W	March 11	<u>LECTURE EXAM 1</u>		<u>LAB EXAM 1</u>	
6	M	March 16	The Muscular System Integument Arthrology	c-10 c-11 c-26 c-5 c-9	Cat Dissection	Ex-13 Ex-14 dissec begins p. 219 Ex-12

TENTATIVE SCHEDULE OF TOPICS

(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
	W	March 18	Arthrology Muscles of the Body	c-9 c-10 c-11	Arthrology Muscles of the Body	Ex-10 Ex-11 Ex-12
7	M	March 23	Arthrology Muscles of the Body	c-9 c-10 c-11	Arthrology Muscles of the Body	Ex-10 Ex-11 Ex-12
	W	March 25	Arthrology Muscles of the Body	c-9 c-10 c-11	Arthrology Muscles of the Body	Ex-10 Ex-11 Ex-12
8	M	March 30	Arthrology Muscles of the Body	c-9 c-10 c-11	Arthrology Muscles of the Body	Ex-10 Ex-11 Ex-12
	W	April 1	<u>LECTURE EXAM 2</u>		<u>LAB EXAM 2</u>	
	M	April 6	No Class: SPRING BREAK		<i>"Celebration of the Vernal Equinox"</i>	
	W	April 8	No Class: SPRING BREAK		<i>"Celebration of the Vernal Equinox"</i>	
9	M	April 13	Digestive System	c-23	Digestive System	Ex-27
	W	April 15	Digestive System	c-23	Digestive System	Ex-27

TENTATIVE SCHEDULE OF TOPICS
(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
10	M	April 20	Digestive System	c-23	Digestive System	Ex-27
			Circulatory System	c-19 c-20	Circulatory System	Ex-23 Ex-24
	W	April 22	Digestive System	c-23	Digestive System	Ex-27
			Circulatory System	c-19 c-20	Circulatory System	Ex-23 Ex-24
11	M	April 27	Circulatory System	c-19 c-20	Circulatory System	Ex-23 Ex-24
	W	April 29	Circulatory System	c-19 c-20	Circulatory System	Ex-23 Ex-24
12	M	May 4	Urinary System	c-24	Urinary System	Ex-28
			Respiratory System	C-22	Respiratory System	Ex-26
	W	May 6	Respiratory System	c-22	Respiratory System	Ex-26
			<u>[LAST DAY TO DROP: FRIDAY MAY 8]</u>			
13	M	May 11	<u>LECTURE EXAM 3</u>		<u>LAB EXAM 3</u>	
	W	May 13	The Lymphatic System	c-21	The Lymphatic System	Ex-25
			The Endocrine System	c-17	The Endocrine System	Ex-21

TENTATIVE SCHEDULE OF TOPICS

(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
14	M	May 18	Reproductive System Nervous System	c-25 c-12 c-13 c-14 c-15	Reproductive System Nervous System	Ex-29 Ex-13 Ex-14 Ex-15
	W	May 20	Reproductive System Nervous System	c-25 c-12 c-13 c-14 c-15	Reproductive System Nervous System	Ex-29 Ex-13 Ex-14 Ex-15
15	M	May 25	<u>NO CLASS:</u> Memorial Day [Shavuoth]	c-25 c-12 c-13 c-14 c-15	Reproductive System Nervous System	Ex-29 Ex-13 Ex-14 Ex-15
	W	May 27	Reproductive System Nervous System	c-25 c-12 c-13 c-14 c-15	Reproductive System Nervous System	Ex-29 Ex-13 Ex-14 Ex-15
16	M	June 1				
	W	June 3	<u>FINAL EXAM</u>			