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

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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..... | SEPT 30 (Wed) |
| Lab Examination 1..... | SEPT 30 (Wed) |
| Lecture Examination 2..... | OCT 19 (Mon) |
| Lab Examination 2..... | OCT 19 (Mon) |
| Lecture Examination 3..... | NOV 23 (Mon) |
| Lab Examination 3..... | NOV 23 (Mon) |
| FINAL EXAMINATION..... (comprehensive) | DEC 16 (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, Nov. 20.**

(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 | AUG 31 | 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 | SEPT 2 | Cytology | c-2 | Cytology | Ex-4 |
| 2 | M | SEPT 7 | NO CLASS: LABOR DAY 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 | SEPT 9 | Cytology Embryology & Human Dev. Skeletal System [FRIDAY SEPT 11: Last Day to Avoid a "W" on Permanent Record] | 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 | SEPT 14 | NO CLASS: ROSH HASHANAH Embryology & Human Dev. | c-3 c-25 (755-761) | 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 | SEPT 16 | Histology: Tissues | c-4 | Histology Skeletal System | Ex-5 Ex-7 Ex-8 Ex-9 |
| 4 | M | SEPT 21 | Histology: Tissues | c-4 | Histology Skeletal System | Ex-5 Ex-7 Ex-8 Ex-9 |
| | W | SEPT 23 | <u>NO CLASS:</u> YOM KIPPUR Histology Integument | c-4 c-5 | Histology Skeletal System | Ex-5 Ex-7 Ex-8 Ex-9 |
| 5 | M | SEPT 28 | <u>NO CLASS:</u> SUKKOT | | | |
| | W | SEPT 30 | <u>LECTURE EXAM 1</u> Arthrology Muscles of the Body | c-9 c-10 c-11 | <u>LAB EXAM 1</u> Arthrology Muscles of the Body | Ex-10 Ex-11 Ex-12 |
| 6 | M | OCT 5 | <u>NO CLASS:</u> SHEMINI ATZERET Arthrology Muscles of the Body | c-9 c-10 c-11 | Arthrology Muscles of the Body | Ex-10 Ex-11 Ex-12 |

TENTATIVE SCHEDULE OF TOPICS
(schedule subject to change)

| Week | Day | Date | Lecture Topic | Text | Lab | Man. |
|------|-----|--------|--|--------------------------|--|-----------------------------|
| | W | OCT 7 | Arthrology Muscles of the Body | c-9 c-10 c-11 | Arthrology Muscles of the Body | Ex-10 Ex-11 Ex-12 |
| 7 | M | OCT 12 | Arthrology Muscles of the Body | c-9 c-10 c-11 | Arthrology Muscles of the Body | Ex-10 Ex-11 Ex-12 |
| | W | OCT 14 | Digestive System | c-23 | Digestive System | Ex-27 |
| 8 | M | OCT 19 | <u>LECTURE EXAM 2</u> | | <u>LAB EXAM 2</u> | |
| | W | OCT 21 | Digestive System | c-23 | Digestive System | Ex-27 |
| 9 | M | OCT 26 | Digestive System Circulatory System | c-23 c-19 c-20 | Digestive System Circulatory System | Ex-27 Ex-23 Ex-24 |
| | W | OCT 28 | Digestive System Circulatory System | c-23 c-19 c-20 | Digestive System Circulatory System | Ex-27 Ex-23 Ex-24 |

TENTATIVE SCHEDULE OF TOPICS
(schedule subject to change)

| Week | Day | Date | Lecture Topic | Text | Lab | Man. |
|------|-----|--------|---|----------------------|--|--------------------|
| 10 | M | NOV 2 | Circulatory System | c-19 c-20 | Circulatory System | Ex-23 Ex-24 |
| | W | NOV 4 | Circulatory System | c-19 c-20 | Circulatory System | Ex-23 Ex-24 |
| 11 | M | NOV 9 | Circulatory System | c-19 c-20 | Circulatory System | Ex-23 Ex-24 |
| | W | NOV 11 | NO CLASS: VETERAN'S DAY Urinary System Respiratory System | c-24 C-22 | Urinary System Respiratory System | Ex-28 Ex-26 |
| 12 | M | NOV 16 | Urinary System Respiratory System | c-24 C-22 | Urinary System Respiratory System | Ex-28 Ex-26 |
| | W | NOV 18 | Respiratory System <u>LAST DAY TO DROP: FRIDAY NOV 20</u> | c-22 | Respiratory System | Ex-26 |
| 13 | M | NOV 23 | <u>LECTURE EXAM 3</u> | | <u>LAB EXAM 3</u> | Ex-26 |
| | W | NOV 25 | The Lymphatic System The Endocrine System | c-21 c-17 | The Lymphatic System The Endocrine System | Ex-25 Ex-21 |

TENTATIVE SCHEDULE OF TOPICS
(schedule subject to change)

| Week | Day | Date | Lecture Topic | Text | Lab | Man. |
|------|-----|--------|---------------------------------------|--------------------------------------|---------------------------------------|----------------------------------|
| 14 | M | NOV 30 | 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 | DEC 2 | 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 | DEC 7 | 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 | DEC 9 | Nervous System | c-12 c-13 c-14 | Nervous System | Ex-13 Ex-14 Ex-15 |
| 16 | M | DEC 14 | <u>NO CLASS</u> | | | |
| | W | DEC 16 | <u>FINAL EXAM</u> | | | |