Stephen Runyan; Instructor **SPRING 2015**
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sec. #0262

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, matching or short answer 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, matching or short answer 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 the 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:

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 Lecture Notes & Lab Manual to every class meeting.

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

Several #1 (or #2) soft lead pencils

Scan-Trons (#882) for computer scoring

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

Optional Materials:

Rubber surgical (or disposable-type) gloves

Laboratory apron or coat

Lecture Examination Schedule (Tentative):

Lab Examination 1.....MARCH 10 (Tues)
Lecture Examination 1..... MARCH 12 (Thurs)
Lab Examination 2.....APRIL 23 (Thurs)
Lecture Examination 2..... APRIL 28 (Tues)
Lab Examination 3.....JUNE 2 (Tues)
Lecture Examination 3..... JUNE 4 (Thurs)

Quiz Schedule:
Quiz 1…….FEB 19 (Thurs)
Quiz 2……MARCH 26 (Thurs)
Quiz 3…….MAY 7 (Thurs)
Quiz 4……MAY 19 (Tues)

Computation of Course Grade:

There will be three Lecture Examinations that will consist of objective-type questions (ie., True/False; Multiple Choice; & Matching questions) that will be answered on SCAN-TRON #882 forms as well as short essays and labeling of diagrams. Each lecture exam will be worth 100 points (for a total of 300 points)

There will be three Lab Exams that will consist mostly of fill-in-the blank questions and will be worth 50 points each (for a total of 150 points).

There will be four Quizzes that will include a combination of multiple choice, True/False, short answer, and diagram labeling. They will be worth 10 points each (for a total of 40 points).

An additional component of your grade will consist of participation/attendance and dissection quality, and will be worth 10 points.

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. **There are no make-up examinations**.

There is a possible 500 total points and grades will be given based on the following policy:

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 Wed, Nov 21.**
(see Schedule).

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.

Turning in someone else's work.

Exiting the room during the exam is not permitted.

Providing your work for someone else to copy.

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 & 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.)
- Read the relevant chapters in your textbook; hi-lite pertinent lines, & add these notes to your class notes (never read without writing).
- Use associations to help you remember things.
- Prepare note cards and carry them with you to review.

6. Begin preparing for your exams at least 1 week in advance.

7. Anything you turn-in (exams, lab reports) should look neat.

Tentative Schedule (Subject to change)

Week	Day	Date	Lecture Topic	Text	Lab Topic	Manual
1	Tuesday	Feb. 10	Intro. To Anatomy Embryology	1, 2, 3	Introduction Microscope	Ex 3, 5
	Thursday	Feb. 12	Intro. To Anatomy Embryology	1, 2, 3	Histology	Ex 5
2	Tuesday	Feb. 17	Tissues/Integumentary System	4, 5	Axial Skeleton	Ex 8-12
	Thursday	Feb. 19	Tissues/Integumentary System	4,5 **Quiz 1**	Axial Skeleton	Ex 8-12
3	Tuesday	Feb. 24	Skeletal System: Bones	6-8	Axial Skeleton	Ex 8-12
	Thursday	Feb. 26	Skeletal System: Bones	6-8	Appendicular Skeleton	Ex 8-12
4	Tuesday	Mar. 3	Skeletal System: Joints	9	Appendicular Skeleton	Ex 8-12
	Thursday	Mar. 5	Skeletal System: Joints	9	Appendicular Skeleton	Ex 8-12
5	Tuesday	Mar. 10	Practical Exam		Begin Cat Dissection	Ex 13-14
	Thursday	Mar. 12	Written Exam		Chest & Abdomen Muscles	Ex 13-14
6	Tuesday	Mar. 17	Muscular System	10, 11	Back muscles	Ex 13-14
	Thursday	Mar. 19	Muscular System	10, 11	Neck, Jaw & Face Muscles	Ex 13-14
7	Tuesday	Mar. 24	Respiratory System	21	Deep Chest & Arm Muscles	Ex 13-14, 26
	Thursday	Mar. 26	Endocrine System	25 **Quiz 2**	Hip, Thigh & Leg Muscles	Ex 13-14, 21
8	Tuesday	Mar. 31	HOLIDAY – NO CLASS			
	Thursday	April 2	Digestive System	22	Respiratory/ Endocrine	Ex 13-14, 27
		SPRING BREAK – April 4 - 10				
9	Tuesday	April 14	Urinary System	23	Digestive/Urinary	Ex 13-14
	Thursday	April 16	Cardiovascular/ Lymphatic Systems	17-20	Heart	Ex 23
10	Tuesday	April 21	Cardiovascular/ Lymphatic Systems	17-20	Heart	Ex 23
	Thursday	April 23	Practical Exam		Open Body Cavity – Internal Organs	Ex 27-28

11	Tuesday	April 28	Written Exam		Heart and Associated Blood Vessels	Ex 24, 25
	Thursday	April 30	Nervous System Intro/ CNS	12, 13	Blood vessels of arm	Ex 24, 25
12	Tuesday	May 4	Nervous System Intro/ CNS	12, 13	Blood vessels of abdomen	Ex 24
	Thursday	May 7	Nervous System/PNS/ANS	14, 15 **Quiz 3**	Blood vessels of leg	Ex 24
13	Tuesday	May 12	Nervous System/PNS/ANS	14, 15	Nervous System	Ex 15-17
	Thursday	May 14	Nervous System	14, 15	Nervous System	Ex 15-17
14	Tuesday	May 19	Sensory Systems	16 **Quiz 4**	Nervous System	Ex 15-17
	Thursday	May 21	Sensory Systems	16	Sense Organs	Ex 18-20
15	Tuesday	May 26	Reproductive System	24	Sense Organs	Ex 18-20
	Thursday	May 28	Reproductive System	24	Reproduction	Ex 29
16	Tuesday	June 2	Practical Exam			
	Thursday	June 4	Written Exam			

FRIDAY FEB 20: Last Day to Avoid a "W" on Permanent Record

FRIDAY MAY 8: LAST DAY TO DROP