

Steven A. Fink; Instructor  
MSA 212  
MW 9:35 – 12:50  
sec. #0260  
OFFICE HOURS: 9:15-9:35 AM [MSA 212]

FALL 2013  
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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

**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 (5th 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 (7<sup>th</sup> 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 (2<sup>nd</sup> ed); Southwest Educational Enterprises; 1986  
[ISBN 0-937029-00-9]

**Practice Quizzes & Exams & Videos:**

**<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/0072907932/student_view0/)**

**[http://highered.mcgraw-hill.com/sites/0072495855/student\\_view0/](http://highered.mcgraw-hill.com/sites/0072495855/student_view0/)**

**Lecture Examination Schedule (Tentative):**

Lecture Examination 1.....	SEPT 25 (WED)
Lab Examination 1.....	SEPT 25 (WED)
Lecture Examination 2.....	OCT 16 (WED)
Lab Examination 2.....	OCT 16 (WED)
Lecture Examination 3.....	NOV 18 (MON)
Lab Examination 3.....	NOV 18 (MON)
FINAL EXAMINATION..... (comprehensive)	DEC 11 (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 3<sup>rd</sup> 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 15.**

(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 26	Organization of the Human Body Terminology Cytology	c-1  c-2	Torso Model  Use of Microscope  Cell Demo	Ex-1 Ex-2 Ex-3 Ex-4
	W	AUG 28	Cytology Skeletal System	c-2 c-6 c-7 c-8	Skeletal System skeletons; skulls; fetal skull & skeleton; disart. skull bones; long bone  mitosis slides; mitosis models; cell models	Ex-8 Ex-9 Ex-10 Ex-11  c-4
2	M	SEPT 2	<b><u>NO CLASS</u></b> <b>LABOR DAY</b>			
	W	SEPT 4	Cytology Skeletal System  [Last Day to Avoid a "W" on Record: <b><u>F SEPT 6</u></b> ]	c-2 c-6 c-7 c-8	Skeletal System skeletons; skulls; fetal skull & skeleton; disart. skull bones; long bone  mitosis slides; mitosis models; cell models	Ex-8 Ex-9 Ex-10 Ex-11  c-4
3	M	SEPT 9	Embryology & Human Dev.	c-3 c-24 (755-761)	Skeletal System skeletons; skulls; fetal skull & skeleton; disart. skull bones  Exploded skull; 1/2 head	Ex-8 Ex-9 Ex-10 Ex-11

**TENTATIVE SCHEDULE OF TOPICS**  
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Week	Day	Date	Lecture Topic	Text	Lab	Man.
	W	SEPT 11	Embryology & Human Dev.	c-3 c-24 (755-761)	Skeletal System skeletons; skulls; fetal skull & skeleton; disart. skull bones  Exploded skull; 1/2 head	Ex-8 Ex-9 Ex-10 Ex-11
4	M	SEPT 16	Histology: Tissues	c-4	Skeletal System skeletons; v. col; vert; sternum; ribs; disart bones  Histology Slides	Ex-8 Ex-9 Ex-10 Ex-11  c-5 Ex-7
	W	SEPT 18	Histology: Tissues	c-4	Skeletal System skeletons; v. col; vert; sternum; ribs; disart bones  Histology Slides	Ex-8 Ex-9 Ex-10 Ex-11  Ex-5 Ex-7
5	M	SEPT 23	Skeletal System		Skeletal System skeletons; skulls; fetal skull & skeleton; disart. skull bones  Exploded skull;  v. col; vert; sternum; ribs; disart bones  Histology Slides	Ex-8 Ex-9 Ex-10 Ex-11    Ex-5 Ex-7
	W	SEPT 25	<u>LECTURE EXAM 1</u>		<u>LAB EXAM 1</u>	

**TENTATIVE SCHEDULE OF TOPICS**  
(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
<b>6</b>	<b>M</b>	<b>SEPT 30</b>	<b>Integument</b>	<b>c-5</b>		<b>Ex-6</b>
			<b>Arthrology</b>	<b>c-9</b>		<b>Ex-12</b>
			<b>Muscles</b>			<b>Ex-14</b>
	<b>W</b>	<b>OCT 2</b>	<b>The Muscular System</b>	<b>c-10 c-11</b>	<b>Cat Muscle Dissection; cat skeleton; muscle models muscle tissue</b>  <b>Cadaver</b>	<b>Ex-13 Ex-14 dissec begins p. 229 Ex-12</b>
<b>7</b>	<b>M</b>	<b>OCT 7</b>	<b>The Muscular System</b>	<b>c-10 c-11</b>	<b>Cat Muscle Dissection; cat skeleton; muscle models muscle tissue</b>  <b>Cadaver</b>	<b>Ex-13 Ex-14 dissec begins p. 229 Ex-12</b>
	<b>W</b>	<b>OCT 9</b>	<b>The Muscular System</b>	<b>c-10 c-11</b>	<b>Cat Muscle Dissection; cat skeleton; muscle models muscle tissue</b>  <b>Cadaver</b>	<b>Ex-13 Ex-14 dissec begins p. 229 Ex-12</b>
<b>8</b>	<b>M</b>	<b>OCT 14</b>	<b>Myology</b>	<b>c-10 c-11</b>	<b>Cat Muscle Dissection; cat skeleton; muscle models muscle tissue</b>  <b>Joint models</b>	<b>Ex-13 Ex-14 dissec begins p. 229  Ex-12</b>



**TENTATIVE SCHEDULE OF TOPICS**

(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
	W	OCT 16	<u>LECTURE EXAM 2</u>		<u>LAB EXAM 2</u>	
9	M	OCT 21	Digestive System	c-23	torso, 1/2 head teeth, tongue & GI model	p. 486 Ex-27
	W	OCT 23	Digestive System	c-23	torso, 1/2 head teeth, tongue & GI model	p. 486 Ex-27
10	M	OCT 28	Circulatory System	c-19 c-20	heart models cat dissection	Ex-24 p. 426 & 431
	W	OCT 30	Circulatory System	c-19 c-20	heart models cat dissection	Ex-24 p. 426 & 431
11	M	NOV 4	Circulatory System	c-19 c-20	heart models cat dissection	Ex-24 p. 426 & 431
	W	NOV 6	Urinary System	c-24	Kidney model; Nephron model	Ex-28 p. 504 & 5059+
12	M	NOV 11	NO CLASS: VETERANS DAY			
	W	NOV 13	Respiratory System  <u>[LAST DAY TO DROP: F NOV 15</u>	c-22	torso, 1/2 head & Larynx model	Ex-26

**TENTATIVE SCHEDULE OF TOPICS**  
(schedule subject to change)

Week	Day	Date	Lecture Topic	Text	Lab	Man.
13	M	NOV 18	<u>LECTURE EXAM 3</u>		<u>LAB EXAM 3</u>	
	W	NOV 20	The Lymphatic System Endocrine System	c-21 c-17	Lymphatic System model	Ex-25 Ex-21
14	M	NOV 25	Nervous System	c-12 c-13 c-14 c-15	spinal cord; spinal nerve; vertebral column	Ex-15 Ex-16 Ex-17 Ex-18
	W	NOV 27	Nervous System	c-12 c-13 c-14 c-15	spinal cord; spinal nerve; vertebral column	Ex-15 Ex-16 Ex-17 Ex-18
15	M	DEC 2	Nervous System  Reproductive System	c-12 c-13 c-14 c-15  c-25	Vertebral Column with Spinal Nerves Brain Models  Reproduction Models	Ex-15 Ex-16 Ex-17 Ex-18  Ex-29
	W	DEC 4	Hematology Reproductive System	c-18 c-25	blood smears repro & torso models	Ex-22 Ex-29
16	M	DEC 9				
	W	DEC 11	<u>FINAL EXAM</u>			