

East Tennessee State University  
College of Public Health  
Dept. of Health Sciences  
Human Anatomy  
HSCI 3000-010  
Summer Session 1, 2010

Text: Gray's Anatomy for Students, 2<sup>nd</sup> ed. 2009(10): paper copy or e-book  
Anatomy, McGraw-Hill Primis: only available in e-book (cheaper online than at bookstore)  
Anatomy and Physiology Revealed: CD ROM or on-line version (cheaper online)

Human Anatomy Course Diagrams (download from the content area of the d2L site)

Day & Time: Mon – Fri. 8:00 a.m. – 11:10 a.m.

Location: Lecture: Lamb Hall, Rm. 234, Lab: Lamb Hall 234

Instructor: Dr. Allan Forsman

Office: Lamb Hall Rm. 249F Phone: 439-4502

[forsman@etsu.edu](mailto:forsman@etsu.edu)

Course web page: <http://faculty.etsu.edu/forsman>

### **Human Anatomy Course objectives:**

The objectives of this course are to:

Introduce students to the use of anatomical terminology. This includes, but is not limited to, terms relating to motion such as flexion/extension, abduction/adduction, etc.

Provide instruction regarding the bones of the human body and the various features of the bones.

Provide instruction regarding the muscles of the human body, their general origins/insertions, innervation, and their actions.

Provide instruction regarding the major blood vessels of the human body and the general area supplied by those vessels.

Provide instruction regarding the major areas of the brain, spinal cord, and peripheral nervous system.

Provide instruction regarding the organs of the body and their functions. This includes the GI tract and its accessory structures, the heart, lungs, kidneys, and reproductive organs.

### **Human Health Concentration Competencies**

Graduates will demonstrate an understanding of the biological and biochemical concepts and processes involved in health and disease in humans.

Graduates will demonstrate the ability to work safely and effectively in a modern scientific laboratory.

Graduates will demonstrate a basic understanding of research techniques used to study human health and disease, including the ability to interpret and evaluate experimental results.

Graduates will demonstrate the ability to clearly communicate concepts involved in human health and disease to peers and faculty, using both written and verbal forms of communication.

Graduates will demonstrate the ability to clearly communicate concepts involved in human health and disease to non-scientists, using both written and verbal forms of communication.

## Human Health Concentration Competencies (continued)

Graduates will demonstrate the ability to solve problems related to human health and disease by using their basic knowledge of the concepts and processes involved in human health and disease to address issues of local, regional, national and worldwide importance.

Graduates will demonstrate the ability to function as critical thinkers both within their field and in society as a whole.

Graduates will demonstrate the ability to utilize the most up to date forms of information technology.

### Examinations:

There will be four (4) examinations in both the lecture **and** laboratory. In addition the fourth exam will have a comprehensive lecture portion. There will be no “special projects” or extra credit given. Grades will be based on the total number of points earned out of the total number of points possible in the course.

Lecture examinations will be predominantly multiple choice format. There may be a few diagram questions. All lecture examinations will be worth 100 points with an additional 50 points for the comprehensive portion of the fourth examination.

Laboratory exams are all in lab practical format and will range from approximately 25 to 50 questions per exam.

### Quizzes:

There will be a five point quiz given at the beginning of every class period. This quiz will cover material to be presented in class **on that day**. There will be a total of 19 quizzes. This means that there are 95 points possible from the quizzes. No make-up quizzes will be given. If you arrive after the quiz has started you will receive a zero for that quiz.

### Homework:

There will be 4 homework unit assignments worth 50 points each. These assignments will use the Anatomy and Physiology Revealed online software. These assignments will be turned in using the “digital drop box” function in the course d2L site. These assignments will be detailed as we progress through the course. In order to complete these assignments you will need to be familiar with both the d2L system and the Anatomy and Physiology program. If you are not familiar with d2L and the digital drop box please contact Dr. Forsman as soon as possible. DO NOT wait until the assignment is due to find out that you do not know the proper procedure.

<b>Grade Scale:</b>	93 - 100	A	78 - 79.99	C+
	90 - 92.99	A-	73 - 77.99	C
	88 - 89.99	B+	70 - 72.99	C-
	83 - 87.99	B	67 - 69.99	D+
	80 - 82.99	B-	60 - 66.99	D

Attendance: Attendance is required. Failure to attend an examination will result in a score of zero for that exam. If you miss an examination (**and have an excused absence**) there will be a make up examination given on July 10, 2009 following the regularly scheduled examination. Make up exams may be in any format, i.e., multiple choice, discussion, short answer, essay, oral, etc. You may only take one set of make up examinations, i.e., lecture and lab. This means that if you miss more than one set of the regularly scheduled examinations you will have to decide which set you would like to make up and which you would like to keep at a score of zero. Only students that are mathematically capable of earning a grade of D or higher will be allowed to take make up examinations.

**IT IS THE STUDENTS RESPONSIBILITY TO CONTACT THE INSTRUCTOR AS SOON AS POSSIBLE AFTER MISSING AN EXAMINATION TO DETERMINE THE STATUS OF THEIR ABSENCE.**

Only two forms of excused absences will be accepted:

1. verifiable hospitalization or physicians care
2. a death in your immediate family (including your own)

occasionally special circumstances arise. Please see instructor if you believe this applies to you.

Tardiness demonstrates a lack of respect for your instructor and your fellow classmates and will not be tolerated. Chronic tardiness may result in the door being locked when class begins.

Class disturbances will not be tolerated. Anyone causing a disturbance will be asked to leave the classroom. Chronic offenders may be assigned a specific seat or be subject to review by a student conduct review board.

Cell phones should be set to vibrate or turned off during class. At no time should a telephone be allowed to “ring” during class time. At no time should a cell phone be used during class. This includes e-mails and text messaging. Anyone found to be using their cell phone during class time will be asked to leave the class for the remainder of that day. ABSOLUTELY no cell phones will be allowed on examination days. Anyone found to be using their cell phone during an examination will receive a failing grade in the course.

Additionally, there will be no caps/hats allowed on examination days. All work submitted for a grade in this course must be the **original** work of the student submitting the material.

The use of i-pod’s during class time is not allowed.

**Models:** Models and charts **MAY NOT** be removed from the lab without written permission from the instructor. Anyone caught removing these items from the lab will be subject to university and civil discipline.

## **VERY IMPORTANT RESOURCES**

**Dr. Forsman’s web page:** The diagrams that will be used in this class, along with other diagrams, can be found on the web at: <http://faculty.etsu.edu/forsman>. The lecture notes for many of our lectures are also posted on this web site. In addition, labeled pictures of the laboratory models used for this class can also be found on this web site.

**Course d2L site:** This site contains the blank diagrams that you will need to be successful in this course. I have also posted the power point presentations that we will be using for some of our lectures. The site also contains a practice laboratory exam for each of our 4 unit exams. I will also post grades on the d2L grade page. I hope that you will use this site to set up chat sessions as you study for exams. To access d2L you must have a username and password. Your username is the same as your **ETSU** email name and your password is (initially) your student ID number.

**The “PORTAL” tutorial site:** All students enrolled in an A&P or Human Anatomy course at ETSU will have access to a tutorial site on d2L known as “The Portal.” This site has many valuable resources such as the book publishers online quizzes, video presentations/descriptions of the models used in our laboratories, and practice quizzes made up of pictures of our laboratory models, to name a few.

**Sherrod Library Media Center:** the media center is located on the 3<sup>rd</sup> floor of Sherrod Library. This center has at least 1 of almost all of our laboratory models on reserve. These models can be checked out for a few hours at a time. They cannot be removed from the library and you can only check out 1 model at a time. Remember, these models are placed in the library to assist you in your studying. They ARE NOT a substitute for attending lab. Additionally, often many students want to study these models at the same time. Be aware that you may go to the media center to

study a model that is already checked out by another student, so you SHOULD NOT rely on these models being available when you want them.

**Course schedule:** The dates and topics listed are provisional. The actual dates of the lectures will depend upon many factors and will be adjusted as needed. *Suggested readings for each class period are printed in italics.* Due to the nature of the quizzes it is **STRONGLY** recommended that you read this material **BEFORE** attending class.

<u>Date</u>	<u>Topic</u>
June 7	Course Introduction, Anatomical concepts, Cytology, Epithelium <i>GRAY'S: pages 2 – 4, PRIMIS: Chapter 2, PRIMIS: pp 51 – 64. NOTE: No Quiz</i>
8	Histology of muscles, Brief bone histology, Brief Neuro-histology, <i>PRIMIS: Chapters 6, 10 and 14.</i>
9	Superficial back, Pectoral Girdle (superficial chest) Rotator cuff, Muscles of Brachium <i>pp. 47 – 53, 608 – 616, 632 – 656.</i> <i>Note: bones of upper extremity will be covered in lab. Shoulder and proximal arm (pp. 623 – 626), distal arm and proximal forearm (pp. 668 – 671), distal forearm (pp. 688 – 690), hand (pp. 708 – 710).</i>
10	Brachial Plexus, Muscles of forearm, Intrinsic Hand Muscles <i>pp. 656 – 665, 692 – 707, 712 – 722</i>
11	Review vessels of upper extremity <i>pp. 652- 653, 675, 698 – 699, 724 – 725.</i>
14	Exam I Bones of thorax (Ribs and Sternum) Thorax: Walls. <b>NOTE: NO QUIZ</b> <i>pp. 120 – 123, 125 – 139, 317 – 320</i>
15	Lungs, Mechanism of Breathing <i>pp. 140 – 152</i>
16	Heart & coronary vessels <i>pp. 153 – 187, 204 – 208</i>
17	Abdomen: walls & contents, Liver; the biliary tree, portal hypertension <i>pp. 242 – 265, 266-284, 285 – 293, 303 – 306</i>
18	Abdomen: walls & contents (continued), Review Lumbar Plexus <i>pp. 340 – 343</i>
21	Abdominal vessels, urinary system <i>pp. 293 – 302, 320 – 328, 399 – 400</i>
22	Exam II Begin Reproductive Systems, pelvic comparisons, meiosis <b>NOTE: NO QUIZ</b> <i>pp. 379 – 387, 482 – 485. For meiosis be completely familiar with the information from diagrams <a href="http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2806_a.jpg">http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2806_a.jpg</a> and <a href="http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2819_a.jpg">http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2819_a.jpg</a></i>
23	Male reproductive system <i>pp. 364 – 373, 401 – 410, 439 – 445, 457 – 459</i>
24	Female reproductive system <i>pp. 410 – 416, 439 – 445, 456 – 457. In addition be completely familiar with the information from diagrams: <a href="http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2820_a.jpg">http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2820_a.jpg</a> <a href="http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2822ab_a.jpg">http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2822ab_a.jpg</a> <a href="http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2822cd_a.jpg">http://faculty.etsu.edu/forsman/Digital%20library%20pics/ha51f2822cd_a.jpg</a></i>

Course Schedule (cont)

<u>Date</u>	<u>Topic</u>
June 25	Gluteal region, Anterior thigh, Sacral Plexus <i>pp. 420 -425, 468 – 481, 494 – 497, 504 – 511, 518 – 521, 587.</i> <i>Note: bones of lower extremity will be covered in lab. Bony pelvis (pp. 483 – 486), proximal thigh (pp. 486 – 489), distal thigh and proximal leg (pp. 513 – 517), distal leg (pp. 542 – 544), foot (pp. 557 – 562)</i>
28	Medial & Posterior thigh, Knee Joint, Anterior leg, Dorsum of foot, Lateral leg <i>pp 587, 512 – 540, 552 – 555, 574</i>
29	Posterior leg, plantar foot, vessels of leg <i>pp. 545 – 550, 574 – 579, 526 – 529, 539, 550 – 551, 579 – 581</i>
30	Exam III Bones of Skull and vertebral column <b>NOTE: NO QUIZ</b> <i>pp. 17 – 18, 20, 26 – 38, 41 – 46, 748 – 781</i>
July 1	Brain & Cranial nerves, blood flow to the brain <i>pp. 782 – 807, <b>NOTE:</b> Brain is not covered in this text. Refer to written information in the course d2L site.</i>
2	Spinal Cord, Meninges, & Autonomic nervous system <i>pp. 24 – 25, 62 – 72, 78 – 88, 782 – 786</i>
5	INDEPENDENCE DAY HOLIDAY
6	Special senses: Eye <i>pp. 830 – 854</i>
7	Special Senses: Ear, Begin Intrinsic back muscles <i>pp. 854 – 871, 53 – 60</i>
8	Muscles of facial expression, muscles of mastication (head and neck), Cervical plexus, Oral cavity <i>pp. 806 – 814, 875 – 882, 906 – 909, 920 – 922, 926 – 927, 939 – 941, 975, 989 – 993, 996 – 998, 1008 – 1009</i>
9	Exam IV (Lecture and Lab) <b>NOTE:</b> Lecture portion will be 100 pts on material presented since exam III and 50 pts comprehensive

Other important dates:

June 11<sup>th</sup>: last day to drop without W (4:30 pm)

June 25<sup>th</sup>: last day to drop without Dean's permission (4:30 pm)