ANATOMY 001 SYLLABUS



West Los Angeles Community College 900 Overland Avenue Culver City, CA 90230 <u>www.wlac.edu</u>

Science Division

SECTION 0263	INTRODUCTION TO HUMAN ANATOMY				
Prerequisites:	Biology 3A. Recommended: English 28, Math 115				
Credit Hours	4 units				
Cleant Hours.	3 Hours	lecture; 3 hours lab per week for 16 weeks			
Time:	Mon & Wed 1:00pm–2:25 pm & 2:50pm – 4:15PM				
Location:	MSA 212				
	Lecture	Marieb, Elaine, Patricia Wilhelm, and Jon Mallatt (2011). <i>Human Anatomy</i> (6 th ed.), Pearson Benjamin Cummings Publishers [ISBN 0-321-61611-1]			
Required Texts and Other Materials:	Lab	Marieb, Elaine and Susan Mitchell (2011). <i>Human Laboratory Manual with Cat</i> <i>Dissections</i> (6 th ed.), Pearson Benjamin Cummings Publishers [ISNB 0-321-66706-9] Assigned text / labs manual of the 5 th or 7 th editions will suffice. Disposable gloves Dissecting instruments Lab coat, apron or cover (optional) Colored pencils, index cards (lab notes) SCAN-TRON 882 forms			
Useful Websites	www.professorfink.com www.videos.med.wisc.edu				
Instructor & Contact Information:	Dr. M. Gertrude (Elizabeth) Hennessey Office: MSB 211 Office Hours: Prior to class; or by arrangement Email: <u>hennesgm@wlac.edu</u>				

Welcome to Anatomy 001 an intensive study of the morphology of the human body. This is a rigorous anatomy course designed to provide a foundation for health care, allied-health, and medically oriented students.

COURSE DESCRIPTION: The course consists of both lecture and lab. The basic concepts of systemic anatomy – microscopic, gross, developmental, and clinical – are presented in this course as logical and accessible as possible; hopefully, to convince you that the structures of the body are well organized and make sense.

Laboratory investigations consist of examinations of: histological slides, photomicrographs, anatomical models and charts, human-like skeletons, disarticulated bones, a complete dissection of a cat and other organs, and video cadaver dissection presentations.

There will be exams (formative, summative, and exit), lab practicals, group discussions, and the availability of *Open Lab Sessions* for extra lab and study time. Anatomy is inherently an intense course which requires hard work and dedication to learning.

The course topics include:

- The process and language of anatomy.
- Review of cytology (cellular structures), histology (basic tissues of the body), basic embryology, and systemic anatomy: integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic, immune, digestive, respiratory, endocrine, and urogenital systems.
- Use of cross-sectional anatomy so that computed tomographic (CT) scans, magnetic resonance images (MRI's) sonograms, and echocardiograms findings can be interpreted.
- An introduction to dissection (of a cat) as a visual model of the human musculature and organ systems.
- An introduction to dissection of a human cadaver is introduced via various video presentations.
- Use of short clinical case reports that dramatize the relevance of anatomy in medicine and other health sciences. The advent of a more violent society has necessitated that greater attention be paid to areas commonly traumatized by gunshot and knife wounds and automobile accidents

COURSE LEARNING GOAL: The general learning goal of Anatomy 001 is to focus the student on the material that is most important to learn and understand in each chapter or area of enquiry. At the same time, it seeks to go beyond fact-recall of basic anatomical structures to helping students develop the ability analyze and synthesize the separate systems into a conceptual whole in order to apply normal human anatomy to simple clinical settings.

COURSE EXPECTATIONS

Adult education carries adult responsibilities; likewise, science education has its own set of expectations. Below is a brief list of those responsibilities and expectations. The list is not meant to be exhaustive but merely to give you a sense of what it is like to function as a responsible adult learner in a science learning environment.

Understanding Science Content

In adult education, each student is ultimately responsible for understanding course material and performing at the appropriate level. This also involves reviewing material from prerequisite courses.

It is my intent to help you understand, to the best of your ability, the content of this course; it is your responsibility to fully participate in this learning environment. Each of us doing our part; together we will succeed. I wish you the best in your endeavors in this course; hopefully, you will wish me the best in mine as I work with you to make the anatomical content of this course understandable and meaningful to you.

It is important to understand that I cannot learn for you, I can only help you learn for yourself. You are the person with the intelligent mind. It is, however, my task to help you comprehend the anatomical materials you are studying. Together we will go forward.

As a student in this course, you are expected not only to attend class but actively participate in the learning experiences of this course, accept and seek feedback from the instructor, provide timely feedback to the instructor when requested, and continually self-assess your progress. This is referred to as *active learning*.

Active learning promotes independent thinking and problem-solving; and learning how to seek and confirm answers -- much as a professional would in clinical practice.

ELEMENTS OF PRACTICE: "Creating a Culture of Student Learning and Success"

As we wrestle with the meaning of the anatomical content under investigation there are four key features of practice that will support your learning: (1) attendance (2) collaborative learning, (3) seeking evidence of learning, and (4) academic integrity. Each of these is discussed in turn below.

1. Attendance

The lecture, laboratory, and small group discussion sessions associated with the anatomy course are valuable components of the learning experience. It is highly recommended that students attend all sessions. All lecture and laboratory sessions are regularly assessed and will contribute to your course grade. Whether in attendance or not, you are responsible for all class announcements and schedule changes.

Enrollment status in this course is your responsibility. Failure to notify the Admissions Office of changes in your status will result in academic penalties ranging from a grade of "F" for failure to withdraw in a timely manner to no academic grade for failure to enroll properly. Both are to be avoided by simply filling out the proper paper work according to the schedule provided on the campus website.

2. Collaborative Learning:

Students in this anatomy course are encouraged to engage in collaborative learning to help each other construct their understanding of anatomy and develop the skills necessary to become competent health care, allied health, or medical professionals.

Although gaining admission into specific programs can be highly competitive, succeeding as an individual within the medical professions requires working cooperatively with others for the benefit of each other, patients, the profession and society. Because grading in this course is criterion-based, this is an excellent opportunity for you to practice the behaviors that will help you succeed in an increasingly collaborative professional environment. However, collaboration does not involve copying another student's work, or having one or two members of a group doing all of the work. As a student in this course, you

are encouraged to seek/offer help from/to your classmates, but each completed assignment / assessment must represent your own work.

3. Evidence of Learning

How do <u>you</u> know what you know? This course will use both Formative and Summative Assessments.

- Formative assessment (e.g., pretest, quiz) implies that the results will be used in the formation and revision of your learning process. This constructive feedback is valuable; it will help clarify what you understand and what still needs work.
- Summative assessment (e.g., exam) is used for the purpose of document of outcomes and reporting grades. Likewise, it is used for providing feedback to instructors about the quality of course or program, reporting to stakeholders and granting programs, producing reports for accreditation, and marketing attributes of a course or program.

Formative assessment tasks are <u>ongoing</u>, conducted throughout the length of the entire course. Summative assessment tasks are scheduled periodically. It is without saying that both forms of assessment are meant to serve you as a learner – the former dovetailing into the latter.

4. Academic Integrity

Academic integrity is an integral component of this anatomy course and the health care / medical profession per se. All members of West LA College Community play a role in fostering an environment in which student learning is achieved in a fair, just and honest way.

The opposite of academic integrity is academic dishonesty. Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information. This anatomy course strongly up holds a culture of honesty and academic integrity.

Students who engage in academic dishonesty will be subject to appropriate academic penalties.

If content of this course proves too challenging, see me, I will try my best to help you with the content.

Examination Integrity

All health care, allied-health, and medical students are expected to adhere to the highest standards of professional behavior and ethics. Students intending to enter any of the above fields should avoid improper behavior or lack of ethical standards while attending undergraduate schooling and should conduct themselves according to the standards expected of the members of the professions to which they aspire.

That being said, this course follows standards for exam delivery set by most national board of examiners. As such, the testing environment will be fair, consistent, respectful, and quiet for all students. What students may / may not bring to the testing area will be explained prior to the exam. Any student not adhering to the standards or displaying any form of academic dishonesty will receive a zero for the exam and is in jeopardy of appropriate academic penalties.

EXPECTATIONS OF LEARNERS

Students are expected to take examinations on the date and time they are scheduled. Examinations are administered with a specific starting and ending time and students are expected to arrive on time. Doors to the exam room will close two minutes prior to the start of the exam. To minimize disruptions, late arriving students will be allowed to enter the room after the exam has started. No additional time will be given beyond the scheduled end of the exam without prior approval. Any student absent from a scheduled examination will receive a zero for that examination.

Students with documented conditions restricting certain activities should apply for class / exam accommodations through the Heldman Learning Resource Center (SSB 320). Please speak with me privately at the beginning of the semester about your needs; all information will remain confidential.

Tentative Summative Assessment Schedule

•	Lecture Exam 1	MON. SEP, 23
•	Laboratory Exam 1	MON. SEP, 23
•	Lecture Exam 2	MON. OCT, 14
•	Laboratory Exam 2	MON. OCT, 14
•	Lecture Exam 3	MON. NOV, 18
•	Laboratory Exam 3	MON. NOV, 18
•	Lecture Exam 4	WED. DEC, 04
•	Laboratory Exam 4	WED. DEC, 04
•	Final Exam	WED. DEC, 11

There are no make-up examinations given; please adhere to dates listed above

Grades

Grades are important to learners. Every learner can have an "off day" so to speak. Assuming that you take all of the Lecture and Laboratory Exams (80% of course grade) and the Final Exam (20% of course grade), class participation and laboratory performance will augment the final average obtained on <u>all</u> Exams counting toward your Course Grade.

100 - 90% = A; 80 - 89% = B; 65 - 79% = C; 50 - 64% = D; Below 50% = F

As a future health care / allied health care professional, it is important for you to try and achieve a minimum of 80% comprehension of the anatomical material under investigation. The various Formative Assessment tasks will help you achieve this goal.

Open Anatomy Lab

To provide more laboratory / lecture study time, the Anatomy Laboratory will be open (with a supervising volunteer) to student enrolled in <u>any</u> section of anatomy. The times the Lab will be open for your use are posted on the room door. The sessions usually run in between afternoon and evening classes and on Friday, that is, when the Lab is not occupied as an instruction space for the other anatomy sessions.

LABORATORY GUIDELINES

General

- All materials must remain in the lab and are not permitted to be taken home. If you need to spend more time with the lab materials, please attend the *Open Lab Sessions*.
- Eating and drinking are prohibited in the lab. In the combined lecture / laboratory room closed beverage containers are permitted during lecture.
- Be responsible when using electronic devices. Speaking on phone, texting, web-surfing during lecture / lab are examples of how electronic devices can be a distraction to your learning and can be discourteous to those around you. A lack of classroom / digital etiquette is certainly unbecoming those who hope to join a cadre of health care or medical professionals. On the other hand, the same devices when used *wisely* can help a student learn productively.

Please do not video or audio tape classmates without their <u>explicit</u> consent. Audio recording of class lectures / labs is for personal use only and are <u>not</u> to be made public via the Internet.

Dissection Labs

- During dissections you may want to consider wearing protective clothing such as a lab coat, scrubs, or any other protective covering and gloves.
- Open toed shoes, sandals, flip-flops etc are not considered safe foot apparel in a dissecting environment.
- Lab tables should be clear of all items that are not necessary for the dissecting exercise.
- Long hair tied back during laboratory sessions.

Clean up

- At the end of each lab session, please return all materials to their proper storage areas.
- During dissection labs, please do <u>not</u> "borrow" cats from another classes' storage locker. Students are to dissect and or examine only the specimens assigned to their group and course section.
- Please follow the posted lab clean-up procedures.
- Wash hands and the lab tables with the appropriate cleaning agents after every laboratory session.
- Make sure all members of the group contribute to the clean-up procedures. This builds cooperation, time-efficiency management, and just plain goodwill among the members.

TIPS FOR SUCCEEDING IN ANATOMY CLASS

A course in anatomy can seem like the "iron man" of your prerequisite load -physically and emotionally demanding at times. But you will succeed if your budget your time, remember to relax, seek support when necessary, and maintain a sense of perspective.

Pace Yourself

There are two types of students those who study for several hours every day, and those who cram like crazy in the days before a test. I recommend the former. You will feel less stress, and actually know the content better if you have a constant, steady study schedule. Studying with peers is also a plus during lab time and before exams.

Take a Break

Like everyone else, you need time to veg out, reconnect with family and friends, or catch up on sleep. Set aside a few hour each week to relax and enjoy yourself, whatever that means to you. Taking a break (even a short one) from your scheduled studying responsibilities it will improve your focus when you return to your study schedule.

Get Help When Needed

If you are concerned about your performance or feeling overwhelmed, discuss the situation with me. I will be able to advise you on the best course of action. For some students, individual attention and support is enough to get them back on track. Others may want to spend more time in the Open Anatomy Lab, or lighten their course load by deferring the anatomy course to another semester.

Do Not Sweat the Small Stuff

If you are struggling you are not alone. Many students feel overwhelmed at the volume of materials some point during the course. Remember the measure of success is not whether you feel stress, but how you choose to deal with it. Learning to learn and perform under difficult and demanding circumstances is an important part of becoming a professional.

TENTATIVE SCHEDULE OF TOPICS Schedule subject to change

Wk	Day	Date	Lecture Topic	Text	Lab	Lab Man
	•	l	PART ONE: INTRODUC	TORY MA	ATERIALS	
1	Μ	Aug	Introduction and Syllabus,	Ch1 Ch2	Human torso:	Ex 1
		20	Organization of Human		Dianos & Soctions	Ex 2 rev
			Body		Modical Imagining	LASTEV
			Modical Imaging		Microscopo: light	
			weutai imaging,		CEM TEM	
			Cutology: roviow			
			AND: BASIC HISTOLOGY / SYSTEM			
		PARITY	VO: BASIC HISTOLOGY / SYSTEM			
	۱۸/	Δυσ	Cytology: review	Ch 2	Coll Model	Ex / roy
	vv	70g	Cytology. Teview		Cell Life Cycle: rev	LA 4 IEV
		20	Skeletal System: Intro	Ch 7	Mitosis / majosis:rev	Ev Q
			Skeletal System. Intro	Ch 8	Skolotal System	Ex 10
					Avial	
					Ana	
					Disarticulated hones	
					Disarticulated bolles	
2	м	Sept				
		2				
	w	 Sept	Skeletal System	Ch 7	Skeletal System	Fx 9
		4		Ch 4	Axial	Ex 10
		-	Histology: Intro	Ch 8	Appendicular	Ex 11
					Disarticulated bones	Ex 5
3	М	Sept	Histology	Ch 4	Skeletal System	Ex 9
		9			Axial	Ex 10
			Histology of Bone	Ch 8	Appendicular	Ex 11
					Disarticulated bones	Ex 5
					Histological slides	Ex 8
-	W	Sept	Embryology	Ch 3	Skeletal System	Ex 9
		11	, , ,	Ch 24-	Axial	Ex 10
				755ff	Appendicular	Ex 11
					Disarticulated bones	Ex 5
					Histological slides	Ex 8

Wk	Day	Date	Lecture Topic	Text	Lab	Lab Man
4	Μ	Sept 16	Embryology	Ch 3 Ch 24- 755ff	Skeletal System Axial Appendicular Disarticulated bones Histological slides	Ex 9 Ex 10 Ex 11 Ex 5 Ex 8
	W	Sept 18	Integumentary System	Ch 5	Skeletal System Axial Appendicular Disarticulated bones Histological slides	Ex 9 Ex 10 Ex 11 Ex 5 Ex 8 Ex 6
5	Μ	Sept 23	LECTURE / LAB EXAM 1	Chapter	rs: 1-4, 6-8	
	W	Sept 25	Muscle of Body Major groups of muscles	Ch 11	Cat dissection as model for human musculature Cadaver dissection	Ex 14 Cat dissection begins on page 230
6	Μ	Sept 30	Muscles of Body Major groups of muscles	Ch 11	Cat dissection as model for human musculature Cadaver dissection videos as assigned	Ex 14 Cat dissection continued
	W	Oct 2	Muscles of Body Major groups of muscles Arthrology	Ch-11 Ch 9	Cat dissection as model for human musculature Cadaver dissection videos as assigned	Ex 14 Ex 12 Cat dissection continued
7	Μ	Oct 7	Muscles of Body Major groups of muscles Myology	Ch 10 Ch 11	Cat dissection as model for human musculature Cadaver dissection videos as assigned	Ex 14 Ex 13 Cat dissection continued

Wk	Day	Date	Lecture Topic	Text	Lab	Lab Man
	W	Oct 9	Myology	Ch 10 Ch 11	Cat dissection as model for human musculature Cadaver dissection	Ex 14 Ex 13 Cat dissection continued
8	М	Oct 14	LECTURE / LAB EXAM 2		Chapters: 5, 9-11	
			PART THREE: MAINTENANCI	E OF THE	HUMAN BODY	
	W	Oct 16	Digestive System	Ch 23	Human torso Cat dissection Cadaver dissection videos as assigned	Ex 7 Ex 27 Cat organs pg. 486
9	Μ	Oct 21	Digestive System	Ch 23	Human torso Cat dissection Cadaver dissection videos as assigned	Ex 7 Ex 27 Cat organs pg. 486
	W	Oct 23	Cardiovascular System	Ch 18 Ch 19 Ch 20	Heart models Cat dissection Pig hearts Cadaver dissection videos as assigned	Ex 22 Ex 23 Ex 24
10	Μ	Oct 28	Cardiovascular System	Ch 18 Ch 19 Ch 20	Heart models Cat dissection Pig hearts Cadaver dissection videos as assigned	Ex 22 Ex 23 Ex 24
	W	Oct 30	Cardiovascular System	Ch 18 Ch 19 Ch 20	Heart models Cat dissection Pig hearts Cadaver dissection videos as assigned	Ex 22 Ex 23 Ex 24

Wk	Day	Date	Lecture Topic	Text	Lab	Lab Man
11	Μ	Nov 4	Lymphatic and Immune Systems	Ch 21	Cat dissection Lymphatic system model	Ex 25
					videos as assigned	
	W	Nov 6	Respiratory System	Ch 22	Human torso, larynx model, bronchi models, cat dissection	Ex 26
					Cadaver dissection videos as assigned	
12	Μ	Nov	NO CLASS:			
		11	VETERAN'S DAY			
	W	Nov 13	Urogenital Systems	Ch 24 Ch 25	Kidney model, nephron, model, cat dissection Male / female	Ex 28 Ex 29
					Reproductive models	
					Cadaver dissection videos as assigned	
					C C	
13	Μ	Nov 18	LECTURE / LAB EXAM 3	Chapter	s: 18 – 25	
			PART FOUR: CONTROL SYSTEM	AS OF TH	E HUMAN BODY	
	W	Nov	Nervous System	Ch 12	Models: vertebral	Ex 15
		20		Ch 13	column with spinal	Ex 16
				Ch 14	nerves, human	Ex 17
				Ch 15	brain, spinal nerve x-	
					Sec.	
					sneep brain as a	
					Cadaver dissection	
					videos as assigned	

Wk	Day	Date	Lecture Topic	Text	Lab	Lab Man
14	Μ	Nov 25	Nervous System	Ch 12 Ch 13 Ch 14 Ch 15	Models: vertebral column with spinal nerves, human brain, spinal nerve x- sec. Sheen brain as a	Ex 18 Fx 19
					model for human	Ex 20
			Special Senses	Ch 16	Model of eyeball, ear	
	W	Nov 27	Nervous System	Ch 12 Ch 13 Ch 14 Ch 15	Models: vertebral column with spinal nerves, human brain, spinal nerve x- sec. Sheep brain as a model for human	Ex 18 Ex 19 Ex 20
			Special Senses	Ch 16	Model of eyeball, ear	
15	М	Dec 2	Endocrine System	Ch 17		Ex 21
	W	Dec 4	LECTURE / LAB EXAM 4	Chapter	rs: 12-17	
16	М	Dec 9	FROM THEORY TO PRACTICE	1		
	W	Dec 11	FINAL EXAM			