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Fall 2009  
El Camino College

## **Anatomy 32: General Human Anatomy**

### **Section 1020 Room LS 113**

**Monday/Wednesday 12:30-1:31PM Lecture**

**Monday/Wednesday 1:35-4:45PM Laboratory**

### **Section 1012 Room LS 113**

**Friday 8:00-10:10AM Lecture**

**Friday 10:15-4:45PM Laboratory**

**Office:** NS 106

<b>Office Hours:</b>	Monday	7:30-8:00AM 4:45-5:30PM	Room NS 123 Room NS 106
	Tuesday	By appointments	
	Wednesday	7:30-8:00AM	Room NS 123
	Friday	7:30-8:00AM	Room LS 113

**Mission Statement:** The mission of El Camino College is to meet the educational needs of its diverse community and ensure student success by offering quality, comprehensive educational opportunities.

**Course Description:** This course includes laboratory dissection of the cat with supplemented charts and models of the human body. There will be separate studies of the skeletal, nervous, muscular, respiratory, digestive, endocrine, excretory, and reproductive systems, and the tissues of the human body particular to each system. This course is designed for biology, health-related, pre-nursing (BSN), and pre-professional majors. High school biology and chemistry, or equivalent is recommended background. Anatomy 32 is a 4 unit class that transfers to UC and CSU.

**Prerequisite:** High school biology and chemistry, or equivalent is recommended background. Recommended preparation also includes Anatomy 30, Biology 10, or Biology 1A and English 2R. This course will be challenging for those with little or no science background.

### **Requirements:**

Text: Marieb, Mallatt, and Wilhelm. Human Anatomy. 5<sup>th</sup> edition. Benjamin Cummings, 2007.

Lab manual: Marieb. Human Anatomy and Physiology Laboratory Manual (Cat Version). 9<sup>th</sup> edition. Benjamin Cummings, 2007.

Optional: Hutchingson, Mallatt, and Marieb. A Brief Atlas of the Human Body. Benjamin Cummings, 2003. this supplement is included with the 4<sup>th</sup> edition of the textbook.

### **Course Objectives:**

1. The student should be able to describe the organelles of the cell.
2. The student should be able to compare and contrast the embryonic germ layers and their derivatives.
3. The student should be able to recognize histological tissues, describe their characteristics and functions.
4. The student should be able to identify bones, bone markings, and functions.
5. The student should be able to identify muscles, origin and insertions, and major actions.
6. The student should be able to describe the components and characteristics of the nervous system, circulatory system, respiratory system, digestive system, urinary system, and reproductive system.

### **Student Learning Outcomes and Assessment Activities:**

1. Students will be given a knee joint model and questions to answer in writing. The student will identify muscle groups that are supposedly attached to the tendons on the knee joint model to be either flexors or extensors. The student will also explain how movement occurs at the knee joint. Included in the student's answer should be a description of what action a flexor or extensor muscle has on a joint and how does that relate to the origin and insertion of a muscle. In describing the joint components, the student should be able to differentiate between the function of various connective tissues such as articulate cartilage, ligaments, and tendons surrounding a joint.

**Evaluation Criteria and Grade Scale:**

<u>Ways to earn points</u>	<u>Point Value</u>	<u>Standard Scale for Grade</u>
Final Exam (2 parts)	250 points	A= 90-100%
4 unit exams (100 points each)	400 points	B= 80-89.4%
3 quizzes (2 at 20 points each)	40 points	C= 70-79.4%
5 lab practica (4 at 50 points each, 1 at 75 points)	275 points	D= 60-69.4%
Attendance and Participation	15 points	F= below 60%
<u>25 homework assignments (5 points each chapter)</u>	<u>125 points</u>	
Total	1105 points	

**Final Exam:**

- Part 1: 200 points, 200 multiple choices, matching, true and false questions, 2.5 hours  
Cumulative, based on text and lectures  
No make-up exam unless there is a verifiable emergency.
- Part 2 50 points, take home assignment involving a case study for each individual student.  
More details will be given later.

**5 Unit Exams:** There will be 70-100 multiple choices, matching, true and false, and labeling questions, lasting 90 minutes. There will also be some short answer essay questions. No make-up exam unless there is a verifiable emergency.

**Quizzes:** There will be one quiz this session which will be on the microscope. The first part will be on the parts of the microscope. The second part will be the correct use of the microscope. Another quiz will cover the materials on the first week of class. The final quiz would be on the muscles of the body with fill in the blanks, matching, and short answers. These quizzes will be given at the beginning of the class.

**5 Laboratory Practica:** There will be 50 identification questions, 2 questions per station. You will have 1.5 minutes per station. Spelling will count when identifying the subject from memory. There is no word bank. If you are late for the practicum, you will not be permitted inside the lab. There are no exceptions.

**Homework assignments:** Students will hand in their homework assignments at the beginning of class. No late homework assignments will be accepted after 7:30AM on the day of the lecture exam. Each homework assignment will be graded according to completion and accuracy of the exercise.

**Attendance and Participation:** Students are required to attend both the lecture and lab. Professor reserves the right to drop students who have missed more than 4 sessions of class. Points are awarded for asking questions, contributing to class discussion, and for answering the professor's oral questions.

**Extra Credit:** Opportunities will be announced throughout the semester. Please do not ask for extra credits.

**Academic Dishonesty:** Cheating and plagiarism, as defined in the El Camino College catalog, will not be tolerated. Students caught cheating or acting suspiciously will get an "F" for the assignment or exam and will be reported to the Division Dean and Dean of Students Services. No opportunities will be given for cheating.

**Repeat Policy:** Each student is allowed only 3 attempts to successfully complete any class with a C grade or better. Please do not enroll in this class now if you are not prepared or do not have the time to do the work.

**Medical Release:** Many of the preserved specimens used in the dissections contain traces of formaldehyde and other potentially dangerous substances. Thus, any student that is either pregnant at the beginning of classes or becomes pregnant during the semester must obtain a medical release from her doctor in order to remain in the course. Please let me know in private if this applies to you.

**Special Accommodations:** If you have a specific learning disability, please contact the Special Resource Center at (310) 660-3295 for documentation and let me know as soon as possible so that we can suitably accommodate your learning needs.

**Open Lab:** Open labs allows you to come to lab and study outside of the scheduled class time. You are required to have an ID in order to use the open lab and check out models. Open lab hours for this semester is on certain Fridays, but are subject to change at anytime. I will announce the times and dates when appropriate.

**Visitors:** Visitors, including children, are not permitted in class at anytime, mainly because of the school's insurance coverage rules. This policy applies to open labs too.

**Food and Drinks:** Food and drinks of all kinds including water is not permitted in class at anytime. You may not eat or drink in lab at anytime.

**Disclaimer Statement:** Students will be notified ahead of time when and if any changes are made to course requirements or policies.

**Important Dates:**

Friday, September 11, 2009	Last day to add classes
Friday, September 25, 2009	Last day to drop class without a W grade
Friday, November 20, 2009	Last day to drop class with a W grade

ANATOMY 32				
Wk #	Date		TENTATIVE LECTURE AND LAB SCHEDULE	Assigned Reading
1	Sep 4	Lecture	Introduction, Anatomical Terminology	Ch 1
			Cell Structure and Mitosis	Ch 2, p.56, p.62
		Lab	Anatomical Terminology and Organ Survey	
			Cell Function, Mitosis, Microscope	
			Histology: Epithelium	
2	Sep 11	Lecture	Tissue	Ch 4
			Integumentary System	Ch 5
			<b>QUIZ 1 Ch 1 and 2, pages 56 and 62</b>	
		Lab	<b>QUIZ 2 Microscope</b>	
			Histology: Epithelium, Connective Tissue, Muscle Tissue, and Nervous Tissue	
3	Sep 18	Lecture	<b>LECTURE EXAM 1 (CHAPTERS 1-5)</b>	
		Lab	<b>PRACTICUM 1 HISTOLOGY</b>	
4	Sep 25	Lecture	Bones and Skeletal Tissues	Ch 6
			Axial and Appendicular Skeleton	Ch 7, 8
			Articulations	Ch 9
		Lab	Axial Skeleton	
5	Oct 2	Lecture	Muscle Tissue and Muscles of the Body	Ch 10, 11
			Nervous Tissue, Introduction to Nervous System	Ch 12
			Central Nervous System	Ch 13
		Lab	Axial and Appendicular Skeleton	
6	Oct 9	Lab	<b>PRACTICUM 2 BONES</b>	
7	Oct 16	Lecture	<b>LECTURE EXAM 2 (CHAPTERS 6-9)</b>	
			Peripheral Nervous System	Ch 14
			Autonomic Nervous System	Ch 15
			Special Senses	Ch 16
		Lab	Cat Dissection	

WK #	Date		TENTATIVE LECTURE AND LAB SCHEDULE	Assigned Reading
8	Oct 23	Lecture	<b>LECTURE EXAM 3 (CHAPTERS 12-16)</b>	
			Blood	Ch 17
			Heart	Ch 18
		Lab	Cat Dissection and Muscle Models	
9	Oct 30	Lab	<b>PRACTICUM 3 MUSCLES</b>	
10	Nov 6	Lecture	Blood Vessels	Ch19
			Lymphatic System	Ch 20
			Endocrine System	Ch 25
		Lab	Heart and Vascular Models	
			Brain, Eye, and Nervous Models Heart	
11	Nov 13	Lecture	<b>VETERAN DAY HOLIDAY</b>	
		Lab	<b>CAMPUS CLOSED</b>	
12	Nov 20	Lecture	<b>LECTURE EXAM 4 (CHAPTERS 17-20)</b>	
			Respiratory System	Ch 21
			Digestive System	Ch 22
		Lab	Heart and Vascular Models	
			Brain, Eye, and Nervous Models Heart	
13	Nov 27	Lecture	<b>THANKSGIVING BREAK</b>	
		Lab	<b>CAMPUS CLOSED</b>	
14	Dec 4	Lab	<b>PRACTICUM 4 HEART AND VASCULAR MODELS, BRAIN, EYE, AND NERVOUS MODELS</b>	
15	Dec 11	Lecture	Urinary System	Ch 23
			Reproductive System	Ch 24
			Review for the FINAL LECTURE EXAM	
		Lab	Respiratory, Digestive, Urinary, and Reproductive Models	
16	Dec 18	Lecture	<b>FINAL LECTURE EXAM (Ch 1, 11, 12, 16, 18, 25, 21, 22, 23, and 24)</b>	
		Lab	<b>PRACTICUM 6 RESPIRATORY, DIGESTIVE, URINARY, AND REPRODUCTIVE MODELS</b>	
			Chapters are taken from the textbook used in the class.	
			<b>LECTURE EXAMS</b>	
			1 Terminology, Cell, Histology, and the Skin	
			2 Skeleton and Articulations	
			3 Nervous System and Special Senses	
			4 Cardiovascular and Lymphatic System	
			<b>PRACTICA</b>	
			1 Histology	
			2 Bones	
			3 Musculature	
			4 Cardiovascular System	
			5 Nervous System	
			6 Respiratory, Digestive, Urinary, and Reproductive System	
			<b>Final Lecture Exam:</b> Terminology, Musculature, Nervous System, Special Senses, Heart, Endocrine, Respiratory, Digestive, Urinary, and Reproductive Systems	