

El Camino College Compton Educational Center
Division: Math and Science
Fall 2009 Anatomy & Physiology Course Syllabus

Welcome to human anatomy 30, Course code: 9040

Units: 4 (UC, CSU)

Instructor: Dr. Eyob Wallano (MVSc, DVM) – Professor of Biological Sciences

Class Location: 103 & 110 lecture & practicum.

Class Time/Day: Friday

Lecture 8:00 AM – 10.05 AM

Laboratory: 10: 15 AM – 4:45 PM

Contact E-mail Address: ewallano@compton.edu or eyobwalla@sbcglobal.net

Phone: (310) 900 – 1600 ext. 2425

Office location: Math/science department at the main entrance Room 115.

Recommended preparation: English 84

El Camino College Compton Educational Center Mission: To meet educational needs of its diverse community and ensure student success by offering quality, comprehensive educational opportunities. The College is committed to offering a comprehensive curriculum in a safe, friendly and accessible environment that prepares students to achieve their personal goals.

Course Description:

Students will be introduced to the beginning of life by understanding the cell for life, the level of organization and the 12 systems of the body structure and function including water ,electrolyte and acid based balance.. Lecture and laboratory combined to 8 hours and the course is given on Fridays. In the course of functional anatomy, lectures and laboratory practices will be demonstrated. The course will be approached by Power point, lecture notes, and audiovisual presentations.

Course objectives/outcomes:

On completion of the course, the students may gain solid understanding in hierarchy and organization of life, to be able to explain the structural, functional characteristics of the 12 systems of the human body. The students may adapt life-long image of learning, become critical thinkers towards solving expected issues, and encouraged to form high educational outcomes.

Methods of presentation:

1. Lecture

2. Homework exercises
3. Models demonstration and graphic illustrations
4. Microscope application on the field
5. Audio-Visual films
6. Use of current periodicals and articles
7. Laboratory and lecture exams on written forms and power points
8. Revision and discussion on the covered parts using jeopardy game form presentations
9. Preparing lecture notes and distributing them for students individually
10. Class discussion and group activities
11. Report on lab exercises or/and research reporting individually.

Methods of Evaluation:

1. Lecture and laboratory exams including quizzes.
2. Homework assignments and class activities.

Student learning outcomes: Students understand integrated concepts of structural and functional differences in the 12 systems of the body and be able to respond strategically aimed target based on in this biological science. The students may demonstrate the ability of understanding on the following topics:

1. Microscope and microcopy – Understanding basics of microscope and demonstrating the skills by identifying the four stages in mitosis.
2. Cardiovascular system – structural and functional differences between arteries and veins.
3. Nervous system – Cranial nerve distribution on gastro intestinal tract.

Books required:

Hole's Essentials of human anatomy and physiology 10th edition – McGraw Hill, ISBN: 978007722135-5 by David Shier, Jackie Butler & Ricki Lewis as a text book. Hole's human anatomy and physiology laboratory manual 10th edition by Terri R. Martin, McGraw Hill, ISBN: 9780072965674. Please bring the books to the lectures and lab classes.

Additionally recommended books:

1. Human anatomy by Michael McKinley and others.
2. Human anatomy by Marieb.
3. Concept in biology by Eldon D. Enger and F. C. Ross.

4. Human anatomy by Martini.

Other recommended materials: A # 2 pencils, 10 scantrons ((form #882), a bound lab notebook with blank pages for the drawings, color pencils, erasers and E-mail address.

Course objectives: To gain solid understanding in structure, organization and function of the human body from chemical level to organism. The basic knowledge will be applicable to design strategies in solving health issues and to give integrated concepts of understanding biological sciences related to the given course.

Attendance policy:

1. **Attendance without official enrollment:** Students will not be permitted to attend classes in which they aren't enrolled.
2. **Attendance during semester:** A student may be dropped from class when the number of hours absent exceeds the number of units assigned to the course. If your absences and tardiness exceed the unit value of the course, you can be dropped. This rule also applies to excessive absences due to illness or medical treatment. If you do not appear to the class, it's your responsibility to be dropped from the class and if you don't then you are obliged to get F in your grade. Therefore, you ought to be attending lectures and laboratory sessions. Points will be given for attendance and participation. If you must be absent for some unavoidable reason, please leave e-mail message before hand. Quizzes will be given without notice at the beginning or/and before the end of the classes. **There is no grace time on giving quizzes and no make-up quizzes.**

Disciplinary action: An instructor's right to drop a student permanently from a class when the student is no longer participating i.e. lack of attendance in the course, an instructor may remove (suspend) a student from his/her class for the day of the incident and the next class meeting.

Student Conduct: Rude behavior will not be tolerated. Do not talk over individual problems or read newspapers or other subjects during lecture and labs. Cell phones, radios, and beeping watches must be turned off before entering class. The teacher doesn't tolerate leaving the class for phone calls. Points will be reduced for an exaggerated in/out at class time.

Cleaning up is mandated before leaving classes of lectures and labs. Two students according to their roster number are assigned to look after the class proper condition daily and report to the instructor.

Disability statement: If you have a documented disability and wish to discuss academic accommodations, please contact me as soon as possible.

Avoiding rude behaviors: As eating & drinking in class mainly in labs, using cell phones, radios, rotating in class unless you are told, class talk while teacher or another student answering/asking questions, studying another subject in Functional anatomy class, and doing anything disappointing the class. **There are no marketing and phone contacts during class time!!** **If a student suspected to using phones and text messaging in the classes or in and out trafficking for more than two times of the given class time, one of the given quizzes will be eliminated from the activity roster.**

Cheating is unethical and certainly not allowed. If you are caught cheating on a lecture exam and/or lab practicum, you will be assigned a grade of a **Fail** equivalent to zero points. In addition to this penalty, you will be given assigned seating for subsequent exams.

Evaluation Criteria:

There will be 4 lecture and 4 practicum examinations. The first exam will be in the form of lecture only. The format will be multiple-choice, true/false, identifying structures physically and matching but may also include short answer/essay and fill in the blanks. Makeup examinations are **NOT** allowed unless supported with proper documentation and advanced e-mail contacts for unfavorable existing conditions. You **MUST** take the exams as scheduled. If you miss it, you will not receive points for that test/exam. Practicum part of the exam can not be tested for the missing date. If you must be absent for some unavoidable reason, please leave e-mail message before hand. When you miss the exam with specific reason, you may be allowed to take missed exam but the exam content will be changed. **If the student allowed to take missed exams, 10% of the exam score will be deducted or/and different exam will be**

offered on the expected topics. The missed exam must be taken within a week of the original exam is given.

Exam results: Students who need to know the final exam results and final grade may bring self stamped posted card on the day of final exam.

Grading Procedures:

There will be 4 lecture and 4 lab exams. The first exam is presented in the form of lecture only. The format will be multiple-choice, true/false, and matching but may also include short answer/essay and fill in the blanks. Makeup examinations are NOT allowed and be able to take the exams as scheduled only.

Grading Procedures:

Exam 1:	100 pts	Given assignments ...	200 pts
Exam 2:	50 pts	Practicum 2:	50 pts
Exam 3:	100 pts	Practicum 3:	100 pts
Exam:4.	200 pts	Practicum 4:	200 pts

- Group presentations, quizzes in lecture and practicum (100 points) and written report and other assignments (100 points).

Grading category:

A	– 90 to 100%	900 to 1000 pts
B	– 80 to 89%	800 to 890 pts
C	- 70 to 79%	700 to 790 pts
D	- 60 to 69%	600 to 690 pts
F	- Below 60%	600 pts and below

Functional Anatomy lecture and laboratory classes schedule Fall 2009

Lecture		Exams	Lab. practice
9/05/09	Introduction to human anatomy, body organization Chapter 1		Body organization and terminology Exercise 2
9/11/09	Cytology - Cell structure: Organelles and functions, somatic cell division Chapter 3		Care and use of the microscope, cells and cell division Exercises 3 - 6
9/18/09	Tissues: epithelial, connective, nerve and muscle, Integumentary system – Chapter 5 & 6		Histology: Epithelial tissue, Connective tissue. Exercises 7 – 10, SLO assessment one on microscopy and microscopy

9/25/09 & 10/02/09	Skeletal system – bone formation, Skeletal system: Axial & Appendicular , joints, Chapter 7		The skeletal system Exercise 11 – 16 Group activities on the skeletal & muscular system
10/09/09	Lecture Exam 1: Joints , muscle and muscle tissue, Chapter 8	Chapters 1- 6	Practicum 1 Joints , muscle and muscle tissue, Exercises 17 - 22
10/16/09	Nerve system Chapter 9 SLO assessment two – muscular system	Contact by E-mail	The nervous system Exercises 23 – 28 Contact one: Homework by e-mail & response by e-mail.
10/23/09	Somatic and special senses, Chapter 10. SLO assessment three – on nervous system		The senses Exercises 28 – 29
10/30/09	Review on the nerve system on chapters 9 & 10, The endocrine, digestive system & nutrition Chapters 11 & 15 Lecture Exam 2	Contact by E-mail Chapters 7 - 8	The digestive system & nutrition, Exercises 29 & 41 Contact two: Home work & review material on E-mail and response by e-mail. Group one & two presentations Practicum 2
11/06/09	Respiratory system Chapter 16. Review the chapters in the form Jeopardy Cardiovascular system Chapters 12 & 13	Chapter outline sent by E-mail	Respiratory system Exercise 43 & 44 Class activity on chapter 9, 10, 11 & 15. Circulatory system Exercise 32 - 35
11/20/09**	Lymphatic system & immunity Chapter 14, Lecture Exam 3	Chapters 9 - 10	Circulatory system Exercises 36 – 39, Practicum three
12/04/09	Urinary system and water electrolytes Chapter 17 & 18	Chapter outline sent by E-mail	Urinary system Exercise 45 Review questions on chapters (11 – 17) in the form of Jeopardy
12/11/09	Reproductive system & Pregnancy, growth, development & genetics. Chapter 19 & 20.		Reproductive system Exercise 47
12/18/09	* Final Lecture & lab Exams	Chapters 11 - 20	*Final practicum

*- Review questions from other chapters can be added to the final exams.

** - Research paper due is 11/20/2009 (points will be deducted if you don't submit on time).

**El Camino College Compton Educational Center
Fall 2009 Semester Class Schedule**

Division: Math/science

Department: Science

	Tuesday		Thursday	Friday	Saturday
Time/ subject code	3:00 - 4.25 PM Bio 15		3:00 - 4.25 PM Bio 15	8:00 AM - 4.45 PM	12:30 PM - 9.15 PM
	5.150 – 9.55 PM Micro 33(9183) Room 106		5.15 – 9.55 PM Micro 33 Room 106	Ant. 30 (9040), Room 103 & 110	Ant. 30 (9041), Room 103 & 110

Tutoring: Instructional information can be obtained by tutorial assistance offered and be advised to check the tutor's schedule posted in learning resource center.

Office hours for contact

Time	Tuesday	Thursday
Before class	12:00 PM - 2:30 PM	12:00 PM - 2:30 PM

Student information form: *The student may read and understand the content of the syllabus and sign on a separate form declaring that "I have read the course overview, and I understand my responsibilities, especially the policies regarding grades, attendance, make-ups and academic honesty."

* - **This agreement signed and kept in the student's file (including the name of the student, contact E-mail).**

Disclaimer statement – Students will be notified a head of time when and if any changes are made to course requirements or policies.