

COMPTON COLLEGE
STEM (Division 1)
LIFE SCIENCES
Spring 2021

GENERAL HUMAN ANATOMY: ANAT 132 - 30009
PROF. Raj Sidhu

Mission Statement of the College:

Compton College is a welcoming and inclusive environment where diverse students are supported to pursue and attain student success. Compton College provides solutions to challenges, utilizes the latest techniques for preparing the workforce and provides clear pathways for completion of programs of study, transition to a university, and securing living-wage employment.

This is a synchronous online class. Lectures will be recorded in Zoom. Virtual Labs are done at McGraw Hill website and are available 24/7. You must attend the class and take exams during class time.

Course Information:

Lecture: M 8:00-8:55am CANVAS W 8:00-9:05am CANVAS
Lab: M/W 9:15am-12:25pm CANVAS / **virtual labs in Labster or McGraw Hill at no cost**

Contact Information:

Office: MS 204 **Phone:** (310)-900-1600 x 2426 **E-mail:** rsidhu@compton.edu
Office Hours: Before or after the class or by registering in TechConnect zoom in CANVAS

I. REQUIRED TEXT

Title of Text: Human Anatomy

Authors' Name: Saladin K

Edition: 6th, **2020 e-book will be accessible at no cost**, ISBN 978 1 260 21026-3, McGraw-Hill

OER Alternative text: You can download a good free pdf textbook from the following link:

<https://openstax.org/details/books/anatomy-and-physiology>

Required Manual: Human Anatomy Laboratory Manual with Cat Dissections

Author's Name: Marieb, E. N., S. J. Mitchell, and L. A. Smith

Edition: 8th Edition, Benjamin Cummings, Inc., San Francisco, (ISBN 9780134255583)

(You may buy 7th edition of lab manual)

II. Course Description: Anatomy 32 General Human Anatomy

4 units; 2 hours lecture, 6 hours lab

Credit, degree applicable

Transfer CSU, UC*; (CAN BIOL 10; Anatomy 32, Physiology 31=CAN BIOL SEQ B)

This in-depth course covers all eleven systems of the human body including related histology and pathology. The systems covered are skeletal, muscular, nervous, integument, respiratory, digestive, reproductive, urinary, endocrine, immune, and lymphatic. Models of the human body and dissection of higher vertebrates are emphasized in laboratory. This course is designed for science, health-related, pre-nursing (Bachelor of Science in nursing), and pre-professional majors.

**Note: The maximum UC credit allowed for students completing Anatomy 30, Anatomy 32, and Physiology 31 is two courses.*

III. Course Prerequisites: Recommended: Anatomy 30 or Biology 10 or Biology 1A; English 84

IV. Course Objectives: Demonstrate the proper use of the microscope and identify specimens.

- Identify cellular structures, organelles, and tissue types for all human organ systems.
- Apply appropriate terminology such as directional terms and regional terms to various anatomical features.
- Identify the major anatomical structures for the major organ systems of the human body including integumentary, musculoskeletal, nervous, endocrine, digestive, circulatory, respiratory, urinary, and reproductive systems.

Major topics include:

I. Cellular Component:

1. Common organelles of the cell and their functions

2. The sequence of the phases of meiosis, mitosis, and gametogenesis

II. Embryology, Surface Anatomy, and Phylogeny:

1. Embryonic germ layers and their derivatives

2. Directional terms and surface anatomy

III. Tissues and Integument:

1. Histological tissues (epithelial, connective, muscular, and nervous): characteristics and functions
2. Skin, blood vessel walls, digestive system walls, and respiratory system walls
3. Integument and its specific functions with other systems
4. Light microscope and its care

IV. Skeletal System:

1. The bones with their features and functions
2. Joints and their features and functions
3. Sequence of events in endochondral and intramembranous ossification
4. Microscopic bone structures

V. Muscular System:

1. Major skeletal muscles of the human body including flexors and extensors of the neck, thorax, hip, knee, ankle, shoulder, elbow, and wrist
2. Muscle action based on origin and insertion of the pectoral, abdominal, upper limb, hip, and upper leg muscles
3. Microscopic structure of muscle cells
4. Process of muscle contraction

VI. Nervous System and Endocrine System:

1. Adult derivatives of the nervous system with respect to their embryological region of origin
2. The function and structure of the central, peripheral, and anatomic divisions of the nervous system
3. Peripheral nervous system and major nerve plexuses
4. Central nervous system and its functions
5. A reflex arc
6. Classification of neurons in the nervous system and role of neurotransmitters
7. Mechanisms of signal transduction
8. Endocrine glands, hormones produced, and hormone functions

VII. Circulatory System:

1. Blood tests (blood differentials)
2. Classification of blood cells and their characteristics
3. Mammalian cardiovascular system including the heart, the major arteries and veins, and the lymphatic system by structure and function
4. The path of blood as it travels through the pulmonary and systemic circulatory systems
5. Common pathologies of the major components of the cardiovascular system
6. Structural differences between blood vessels and lymphatic vessels
7. Basic immune response

VIII. Respiratory, Digestive, Urinary, and Reproductive System:

1. The structures of the respiratory and digestive systems including the histology, pathology, and distinctive features of each region
2. The path of air from the moment it enters the body to the point at which it reaches a tissue
3. The path of food through the digestive system and explain how it is processed at each location
4. The accessory digestive glands
5. The structures of the urinary system and their functions including the nephron
6. The structures of the human reproductive system and their function
7. The path of a gamete from its point of origin to the point of fertilization

IX. Dissection:

1. Major skeletal muscles.
2. Major blood vessels.
3. Organs of respiratory, digestive, urinary, and reproductive systems and their features.
4. Major features of specimens such as sheep heart, sheep brain, cow/sheep eye, and human cadaver.

V. Student Learning Outcomes:

Upon completion of the course, learners will be able to:

- Students will be able to identify higher vertebrate body structures of all body systems.
- Students will be able to use language appropriate to anatomy and the health sciences.
- Students will demonstrate the use of instruments for dissection, histology, and to gather data.

Examples of Student Learning Outcomes assessment include:

1. The student will view prepared microscope slides of cells or tissues, focus on and identify the specimen under the compound microscope.
2. The student will identify muscle groups as flexors/extensors and explain how they move the joint.

VI. Assessment Activities: The following will be used to assess mastery of student learning outcomes:

- A. Objective Exams
- B. Quizzes
- C. Lab Practicum
- D. Problem based and critical thinking short descriptive questions
- E. Term paper-writing and presentations

VII. Evaluation Criteria:

- A. Objective questions will test the understanding and recall of basic anatomical facts.
- B. Problem solving and case studies will test the mastery of the subject and its application to solve problems.
- C. Lab Practicum will test the ability to identify gross anatomical structures and histological slides.
- D. Term papers and group projects will encourage team work, research, writing and speaking abilities.

Student's Responsibility Upon successful completion of the course, students are expected to be able to demonstrate 'student learning outcomes' with at least 70% accuracy. This requires a conscientious study program and good time management. We need to work hard to succeed in this course. Be prepared for class. Learners are advised to preview materials for each class meeting using the attached schedule, and to study immediately after class. Take good lecture notes. Practice tests at the back of chapters and the different study activities on the textbook website using your access codes. Study with a study group/buddy. You can get more work accomplished with a good study group. Answering as many questions as you can in the lab manual before the lab classes will help prepare you for the materials to be observed in the lab classes.

VIII. Grading Procedure: All points in the exams and practicum will be combined into a single total for the final grade. There will be four lecture exams including final exam, 100 points each. Four lab exams will be held, each for 50 points. 12 quizzes, best 10 counted for the grade, covering both lecture and lab part will account for 50 points. Also 50 points will be awarded for lab work, activities, homework, and participation.

Assessments may be multiple choice, fill in, short answers, labeling, term paper, or short presentations. Additional assignments will be given for extra credit. Final letter grade will be assigned based on the following:

Grading Scale:

Description	Letter	Percentage	GPA
Excellent	A	90%-100%	4.00
Good	B	80%-89%	3.00
Satisfactory	C	70%-79%	2.00
Unsatisfactory	D	60%-69%	1.00
Not competent	F	0%-59%	0.00
Incomplete	I		
Withdrawal	W		

Final Grade Calculation

Quizzes, Critical Thinking	50
Lab Work / HW assignments	50
Virtual Labs and Dissection	100
Written Exams	400
Lab Exams	200
Total Points	800

IX. Attendance Requirements:

1. Attendance at first class meeting: Students who enroll in class but do not attend the first scheduled class meeting may be dropped from the roster. A student who registers for a class and never attends is still responsible for dropping the class.
2. Attendance without official enrollment: Students will not be permitted to attend classes in which they are not enrolled.

3. Attendance during semester: A student may be dropped from class if absences/ tardiness exceed the unit value of the course. This also applies to excessive absences from illness or medical treatment.
4. Children in classrooms: Children are not permitted in classrooms while class is in session. Attendance in class is limited to officially enrolled students and authorized visitors or guests. In addition, students must not allow children to be left unsupervised or unattended anywhere on campus.
5. **Tardy/ Early Departure:** If you are late more than 10 minutes after the class begins, you will be marked tardy. Early departure before end of class is marked as absence.
6. **Missed Work: If you are absent,** it is your responsibility to inform the instructor of your absence and to request, if applicable, any make up work. You are still responsible for the missed lecture, lab or any other class activity of the day.
7. **Excused absences:** Documentation is required to excuse absence due to illness or death in family.

X. Student Resources Available at Compton College

Student Resources: Your success is the number one priority at Compton College. College resources to help you succeed include computer labs, tutoring centers, health services, and services for designated groups, such as veterans and students with disabilities. For a comprehensive list of Academic Resources and Support Programs, visit: <http://www.compton.edu/student-services/index.aspx> and check Student Resources links at bottom of Compton webpage.

Student Success Act: State regulations may affect your eligibility for financial aid, your registration priority, and your ability to repeat classes. After completing 15 units or prior to the end of the third semester, all students must declare a major and complete a comprehensive educational plan. Schedule an appointment to see a counselor for an up-to-date educational plan.

XI. Food and Housing / Basic Needs

Compton College is committed to students with special needs and their rights to an equal experience Any student who faces challenges securing their food or housing and believes this may affect their performance at Compton College is urged to contact The Tartar Support Network at tartarsupport@compton.edu or (310) 900-1600 ext. 2538 help.

XII. Undocumented Students

Compton College is committed to supporting the success of all students. If you identify as undocumented, AB540, and/or a DACA student, we have many support services and staff on hand to help. Please visit <http://www.compton.edu/student-services/financialaid/ab540/> for more information.

XIII. Financial Aid, Scholarships, & Pell Grants

Struggling to pay for tuition, books, or other costs associated with going to college? If so, Compton College has financial aid, scholarships, and other financial assistance solutions to help pay the bills so you can focus on class. For more information about how to maximize your financial aid and scholarship opportunities, please make an appointment with a financial aid counselor at 310-900-1600, ext. 2935, or visit Financial Aid online at <http://www.compton.edu/student-services/financialaid/>

XIV. Statement of Student Conduct:

Student conduct at Compton College must conform to federal and state laws and District policies and procedures. Standards will apply to all students on District owned facilities or controlled property or at District-sponsored or supervised functions or electronic media. Violation of such laws, policies, and procedures or behavior adversely affecting suitability as a student, will lead to student disciplinary action. Student disciplinary actions as noted in Board Policy 5500, Administrative Regulation 5520, and Administrative Regulation 5530 may be taken against any person who engages in behavior defined as misconduct.

Classroom Misconduct

1. Dishonesty, including but not limited to cheating, plagiarism or knowingly furnishing false information to the College.
2. Forgery, alteration, or misuse of college documents, records, or identification.
3. Violation of college policies or off-campus regulations, including but not limited to campus regulations concerning student organizations, the use of college facilities, or time, place, and manner of public expression.
4. Continued disruptive behavior, continued willful disobedience, profanity or vulgarity, or continued defiance of the authority of, or abuse of, college personnel or to anyone on campus.
5. Willful misconduct which results in injury or death to a student or college personnel.
6. Assault, battery, sex crimes including sexual assault or rape, or any threat of force or violence upon a student or college personnel.

7. Sexual harassment which includes unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature.
8. Obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other authorized college activities including but not limited to its
9. Community service functions or to authorized activities held off campus. Obstruction or disruption includes but is not limited to the use of skateboards, bicycles, radios, and roller skates.
10. Unauthorized entry to or use of college facilities, equipment or supplies.
11. Theft or deliberate damage to property of a college staff member, a student, or a visitor to the college including but not limited to the Library, Bookstore, and Food Service areas.
12. Defacing or damaging any college real or personal property.
13. Failure to comply with the directions of a member of the college certificated personnel, college management or supervisor personnel, or campus police acting within the scope of his or her duties.

Disciplinary Action: Disciplinary action appropriate to the misconduct as defined above may be taken by an instructor, the Dean of Student Services or his or her designee and the Board of Trustees.

Misconduct should be brought to the immediate attention of the Campus Police, or local police department/security force for courses taught off campus.

Removal by Instructor — In addition to 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 or her class for the day of the incident and the next class meeting. During this period of removal, a conference should be held with the instructor and the student to attempt to resolve the situation that led to the student's removal and the student shall not be returned to the class from which he or she was removed without the concurrence of the instructor of the class.

1. If a student is suspended for one class meeting, no additional formal disciplinary procedures are necessary.
2. If a student is suspended from class for the day of the incident and the next class meeting, the instructor shall send a written report of the action to his or her dean who shall forward this information to the Dean of Student Services, the Provost. If the student removed by an instructor is a minor, the President's designee (Dean of Student Services) shall ask a parent or guardian of the student to attend a parent conference regarding the removal as soon as possible. If the instructor or the parent or guardian so requests, a college administrator shall attend the conference.
3. The instructor may recommend to his or her dean that a student be suspended for longer than two class meetings. If the dean, instructor and student cannot resolve the problem, the suspension will be referred to the President or the President's designee.
4. During the period following the initial suspension from class for the day of the incident and the following class meeting, the student shall be allowed to return to the class until due process and the disciplinary procedures are completed unless the student is further suspended as a result of actions.

Cheating or Plagiarism Policy: "Dishonesty, including but not limited to cheating, plagiarism or knowingly furnishing false information to the college." Examples of Cheating or Plagiarism include:

1. Representing the words, ideas or work of another as one's own in any academic exercise (plagiarism), including the use of commercial term paper companies;
2. Copying or allowing another student to copy from one's paper or answer sheet during an examination;
3. Allowing another individual to assume one's identity for the purpose of enhancing one's grade in any of the following: testing, field trips or attendance;
4. Falsifying or attempting to falsify attendance records and/or grade rosters;
5. Changing answers on a previously scored test, assignment or experiment with the intent to defraud;
6. Inventing data for the purpose of completing a laboratory experiment or case study analysis with the intent to defraud;
7. Giving and/or taking information during an examination by any means such as sign language, hand signals or secret codes;
8. Obtaining copies of notes, exams or exam questions by any means other than distribution from the instructor. (This includes copying and removing exam questions from the classroom for any purpose.);
9. Using study aids such as calculators, tape recorders or notes that have been specifically prohibited by the instructor.

A. Consequences for Cheating or Plagiarism: Given alleged violation of the Standards of Conduct, any or all of the following actions may be imposed:

1. When there is evidence of cheating or plagiarism in classroom work, students may receive an F for that piece of work or may be suspended from all classes for that term and the following term if deemed appropriate.
2. The instructor may assign a failing grade to the examination or assignment in which the alleged cheating or plagiarism occurred. This action is based on information that the instructor had.

3. The instructor may dismiss the student from the class or activity for the present and/or following class session(s)
4. The instructor may recommend suspension or expulsion of the student from the college as stipulated in BP5138, Section IIB6 and 8. This recommendation must be in accordance with El Camino College's Due Process and Disciplinary Procedures.
5. Complete the Academic Dishonesty Report Form and submit it to the Academic Affairs Office.

B. Late/Missed assignment policy: No late assignments will be accepted. No make-up exam or quiz given for unexcused absences. Students are required to attend all class meetings promptly and be orderly. On arrival in the class/lab the students will be required to sign in on the attendance roster. If the student is late more than 5 minutes, he/she must record the time of arrival. At the end of the class the students must sign out. If for any reason the student has to leave early, the time of departure must be noted with signature. If the absences and tardiness exceed the number of units of the course, the student may be dropped. If you missed a class, contact your study buddy for information and assignments. If you intend to discontinue the class, ensure that you officially drop your name from the class. It is the student's responsibility to complete all assignments for the course, especially the laboratory exercises.

C. Policy regarding audio taping of lectures: If you so desire, you can record audio of my lectures if all students agree. At the end of the semester erase all material from your storage devices. Do not pass the recorded material to any other student/person or disciplinary action will be taken as per rules.

D. Safety regulations: Extreme caution should be exercised in the labs, because of hazardous materials, and sharp objects. Wear personal protective equipment, like lab coats, safety goggles, and hand gloves. Closed shoes must be worn in labs, no sandals or slippers allowed. Eating, drinking, or applying make-up should be avoided. Wash your hands thoroughly with soap and water after the lab.

XV. Special Accommodations Statement

If you believe you may need accommodations in this class now or at any point in the semester, please go to the Special Resource Center (SRC) or call 310-900-1600, ext. 2402 for an appointment. For more information visit about the Special Resource Center and the services they provide, please visit <http://www.compton.edu/student-services/support-services/special-resource-center/>.

XVI. Mandatory Reporting: Child Abuse, Gender-Based, or Sexual Misconduct

Your safety is important to me. Please know that that if you reveal child abuse, child neglect, or gender-based or sexual misconduct (including harassment, sexual assault, stalking or intimate partner violence) to me or any instructor, we are required by law to report the problem to the Compton College Police Department. However, psychologists are not required to report your incident. To speak confidentially with a psychologist, please contact St. John's Health Center for a free appointment: (213) 226-7480. You can also visit <http://www.compton.edu/student-services/health-center/> for scheduling information.

XVII. Disclaimer Statement:

Students will be notified ahead of time when and if any changes are made to course requirements, policies or schedule.

XVIII. Semester schedule of topics and assignments:

Please see attached Lecture/Lab Schedules and pay attention to following dates:

Fall 2021 Important Dates

Weekday Classes Begin.....Monday, August 23, 2021
 Last Day to Drop and be Eligible for a Refund (First 8-Week Session)..... Friday, August 27, 2021
 First Day to Apply for Graduation and Certificates (Fall)..... Tuesday, August 31, 2021
 Last Day to Add (Full Semester Courses).....Sunday, September 5, 2021
 Last Day to Drop and be Eligible for a RefundSunday, September 5, 2021
 Last Day to Drop Without Notation on Permanent Record.....Sunday, September 5, 2021
 Labor Day Holiday (*Campus Closed*).....Monday, September 6, 2021
 Last Day to Apply for Degrees and Certificates (Fall)..... Thursday, October 14, 2021
 Veterans Day Holiday (*Campus Closed*)..... Thursday, November 11, 2021
 Last Day to Drop with a "W" (Full Semester Courses).....Friday, November 12, 2021
 Thanksgiving Day Holiday/Weekend Thursday – Sunday, November 25-28, 2021
Fall Semester Ends..... Friday, December 10, 2021