

COMPTON COLLEGE
STEM (Division 1)
LIFE SCIENCES
Fall 2021

HUMAN PHYSIOLOGY: PHYO 131 - 30301
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 face-to-class and will meet at college campus.

Course Information:

Lecture: M 1:15-2:05pm MS103 W 1:15-2:20pm MS103

Lab: M/W 2:15pm-5:25pm MS103

Contact Information:

Office: MS 204 **Phone:** (310)-900-1600 x 2426 **E-mail:** rsidhu@compton.edu

Office Hours: Before or after the class and by appointment in MS204

I. RECOMMENDED TEXT:

Title of Text: Human Physiology, **you will have free access to e-book** of this text at McGraw-Hill website.

Author's Name: Fox, Stuart I.

Edition: 15th Edition, McGraw Hill Companies, Inc., Boston, MA, USA. 2019. ISBN 978125986462-9

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

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

Required Manual:

Title of Lab Manual: A Laboratory Guide to Human Physiology

Author's Name: Fox, S.I.

Edition: 13th Edition, McGraw Hill Companies, Inc., Boston, MA, USA. 2013. ISBN 9780077427320

Supplemental Materials: You will need laptop/pc/chromebook and a wifi connection attend online live lectures and take exams/quizzes.

You can Access Canvas to download full power points of lectures. To login click the link below:

<https://compton.instructure.com/> or log into myCompton, click on CANVAS tile.

This URL is the only way you can log into your Compton website.

login id = use your MyCompton User Name Example: gperez

password = use your MyCompton Password Example: whatever you use to log in to myCompton.

II. Course Description: Physiology 131 - Human Physiology

4 units; 2 hours lecture, 6 hours lab

Credit, degree applicable

Transfer CSU, UC*; (CAN BIOL 100; Anatomy 132, Physiology 131=CAN BIOL SEQ B)

This course is a study of cellular physiology and the functional aspects of the following body systems: circulatory, respiratory, digestive, excretory, reproductive, muscular, nervous, and endocrine.

In the laboratory, experiments are performed to demonstrate principles discussed in lecture. This course is designed primarily for those majoring in the health sciences.

**Note: The maximum UC credit allowed for students completing Anatomy 130, Anatomy 132, and Physiology 131 is two courses.*

III. Course Prerequisites: Successful completion of Anatomy 130 or 132 and Chemistry 20, 21A, or 4 with a grade of C or better in both courses are the prerequisites.

IV. Course Objectives:

Upon completion of this course, students should be able to:

1. The student should be able to describe the cell and its organelles as well as cellular functions.
2. The student should be able to describe the characteristics of blood and all its components.
3. The student should be able to describe the components of the circulatory system including cardiac contraction, regulation of blood pressure, cardiac output, etc.
4. The student should be able to explain the components of the respiratory system including the mechanics of breathing, cellular events of gas exchanges, and different lung volumes.
5. The student should be able to explain the components of the digestive system including the macromolecules of life and the processes of their breakdown.
6. The student should be able to discuss the systems involved in excretion and secretions of materials through the human body.
7. The student should be able to explain the components of the muscular system including muscle contractions and the mechanics of the muscle.
8. The student should be able to explain the components of the nervous system including membrane potentials, nerve impulse, and interpretation of the signals.
9. The student should be able to explain the components of the endocrine system including the glands and relative control of bodily functions.
10. The student should be able to explain the components of the reproductive system including genetics.

V. Student Learning Outcomes:

1. SLO #1 Language: Students will be able to use language appropriate to physiological functions and the health sciences.
2. SLO #2 Instruments: Students will demonstrate the use of instruments to gather physiological data.
3. SLO #3 Mechanisms: Students will be able to describe mechanisms and explain physiological processes that occur in the human body on cellular, organ, systemic, and organismal levels.

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

1. Lecture Exams with objective questions
2. Quizzes
3. Lab exams
4. Problem based and critical thinking short descriptive questions
5. Term paper-writing and presentations

VII. Evaluation Criteria:

1. Objective questions will test the understanding and recall of basic anatomical facts.
2. Problem solving and case studies will test the mastery of the subject and its application to solve problems.
3. Lab Practicum will test the ability to identify gross anatomical structures and histological slides.
4. Term papers and group projects will encourage teamwork, 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, with the lab points making a third of the grade. There will be three lecture midterms and one final exam, 100 points each. Four lab exams will be held, each for fifty points.

Also fifty points total will be awarded for lab reports, activities, homework, and participation.

Assessments may be multiple choice, fill in, short answers, labeling, term paper, or short presentations.

Pop-quizzes may 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	100
Lab Work Report or assignments	50
Virtual Labs/ Home assignments	50
Case Study/review paper	50
Written Exams	400 (4 x 100)
Lab Exams	100 (2 x 50)
Total Points	750

IX. Attendance Requirements:

- Attendance at first class meeting: Students who enroll in class but do not attend the first scheduled class meeting via Zoom, will be dropped from the roster. A student who registers for a class and never attends is still responsible for dropping the class.
- Attendance without official enrollment: Students will not be permitted to attend classes in which they are not enrolled.
- 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.
- 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.
- Tardy/ Early Departure:** If you are late more than 5 minutes after the class begins, you will be marked tardy. Early departure before end of class is marked as absence.
- 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.
- 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 10 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 my lectures after obtaining my written permission. 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/healthcenter/> 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