

**PALO VERDE HIGH SCHOOL
COURSE EXPECTATIONS**

COURSE TITLE: Anatomy and Physiology Honors

INSTRUCTOR: Mr. Franco

COURSE DESCRIPTION:

This course is designed for students who have a special interest in human anatomy and physiology. Topics include the structure and function of the respiratory, circulatory, excretory, endocrine, reproductive, integumentary, skeletal, sensory, nervous, and digestive systems. This course includes integral laboratory experiences and comparative dissections that reinforce the topics covered in class. **This course does not qualify as a laboratory science** for college entrance.

PREREQUISITES :

- Completion of Biology I Honors with a "C" or above.
- Completion of Chemistry I Honors and Physics I Honors with a "C" or above. (Physics may be taken concurrently)
- Completion of Chemistry I and Physics I with an "A" and teacher approval.
- Approval of last science teacher.

PRE-ASSESSMENTS:

- Each student will take a pretest of a diagnostic nature to determine basic knowledge of Course Content.

POST-ASSESSMENT:

- Each student will take a post-test of a diagnostic nature to determine individual growth in Course Content.

POSSIBLE CAREERS:

Physician's Assistant	Coroner	Nurse
Optometrist	Pharmacist	Dietitian
Veterinarian	Dental Hygienist	Geneticist
Genetic Counselor	Research Scientist	Paleontologist
Pediatrician	Teacher	Dentist
Biotechnology Engineer	Doctor	Physical Therapist

COURSE OUTCOMES:

- When presented with an experimental problem, the student will apply the steps of the Scientific Method in the preparation, execution, and evaluation of an experiment.
- Using a variety of laboratory techniques, the student will conduct experiments, which will be summarized in written departmental laboratory format.
- Given a list of expected laboratory safety procedures, students will perform experiments without accident or injury.
- When measuring, collecting data, or performing calculations, students will report results in SI (Metric) units for all measurements.

- Given a microscopic specimen, students will focus at maximum resolution and magnification to locate and identify specimens.
- When given a list, students will categorize major organs of the human body into their appropriate systems.
- Students will successfully implement the proper methods and techniques used to study the human body.
- After verbal instruction and model demonstration, students will diagram and identify the major structures of each body system.
- Using a variety of laboratory specimens, students will successfully locate and list the function of the major components in each body system.
- After observations of various tissue specimens, students will correctly identify and list the function of each type of tissue found in each body system.
- After lecture and laboratory work, students will diagram and express in written form the interactions among each body system in maintaining the homeostatic balance of the human body.
- Students will demonstrate their understanding of embryology by diagramming and modeling the embryological development of each body system.
- When provided with computer software and accessory equipment, students will collect, display, and analyze data while participating in interactive computer labs.
- Through lecture and independent research, students will explore the vocational opportunities and requirements in the health science field and produce a written report on an acceptable health science career.
- After researching various human diseases, students will match the pathological disease with its specific symptoms and body system by teacher selected oral or written methods.

LESSON TOPICS AND TIME SCHEDULE (SEQUENTIAL):

<u>Lessons</u>	<u>Periods</u>
• Assessment, Class Management	4
• Intro to Anatomy and Physiology	8
• Chemical Basis of Life, Cellular Metabolism	7
• Cells	8
• Tissues	10
• Skin and the Integumentary System	7
• Skeletal System	14
• Urinary System	8
• Endocrine System	13
(END of Semester 1)	
• Nervous System	20
• Muscular System	18
• Digestion and Nutrition	10
• Cardiovascular System	16
• Somatic and Special Senses	12
• Respiratory System	8
• Lymphatic System and Immunity	4
• Reproductive Systems, Pregnancy,	2
• Growth, Development	2

MAJOR TEXT:

- Each student will receive a copy of Pearson, Essentials of Anatomy and Physiology, Fourth Edition, 2007.
- Care of the Text - The student will be responsible for care of this book for the entire school year. If the book is lost or stolen, the replacement will cost \$86.00. The student will pay a portion of the total cost if the book needs repair. Book covers are required.

COURSE INFORMATION:

- **Testing** - Students will be tested on notes, laboratory activities, reading assignments, completed units, and after special areas of study. Tests will be given at the end of each unit of study. The tests will include objective questions, essay questions, and/or proficiency situations. Alternate forms of assessment such as project books or lab practicals may be used to determine developmental progress. Students can expect quizzes, announced or unannounced, which encourage students to remain current in the subject.
- **Test Review:** Exams can be reviewed before or after school with a key and the student's scantrons. Students may take notes on concepts missed. Cell phones will not be allowed during test review by the student. The teacher will remediate any missed concepts and review test taking strategies as students review their tests.
- **Assignments and Homework** - A student may be assigned homework every day. Homework will be given verbally, written on the board, and kept in a student planner. Assignments not completed during class may become additional homework and will be due the next day. All assignments will be checked and graded.
- **Make-up** - Students have one block period per excused absence to make up work. It is the responsibility of the student to obtain make-up work from the appropriate source in the classroom, another student, website, or from the teacher.
- **Extra Credit and Enrichment** - Extra credit points may be earned only by participating in selected activities assigned and approved by the instructor at his/her discretion. It is the responsibility of the student to obtain guidelines and time lines from the instructor. The teacher may provide enrichment materials for the exceptional student above and below average grade level.
- **Notebook and Supplies** - Students are required to maintain a separate, neatly organized, three ring binder with the following sections: **NOTES, HOMEWORK, HANDOUTS, and LABORATORIES**. Students are required to bring to class each day: pens, #2 pencils, lined notebook paper, and their Student Handbook.
- **Tutoring Opportunities** – I will be available to help you during the week at specific times. Whenever possible, schedule an appointment with me a day in advance, to allow for more time and better individualized assistance.
- **Laboratory Activities** - Read and study all laboratory activities to familiarize yourself with the purpose and procedures of the exercise. You must learn and follow all safety rules. **ANY SAFETY VIOLATION and/or LACK OF PREPARATION** during laboratory activities may result in an "F" grade for the activity without make-up privileges. You are NOT to wear contact lenses on laboratory days. Hair must be tied back, loose sleeves must be rolled back, and feet and toes must be fully covered by shoes. No open toed shoes. Before the end of your class, materials and equipment must be returned to their proper place. Working areas and equipment must be cleaned. Do not dispose of any chemicals or dissection specimen parts any items used in sinks or in trashcans without receiving directions from your instructor.

General Behavior Guidelines:

- Disruptive class behavior of any nature is not tolerated. Violators will be disciplined accordingly. Consult your Student Handbook when in doubt about what constitutes proper behavior.
- Cheating of any nature will earn you a zero point grade on the assignment. No make-up work or extra credit will be assigned to replace points lost by cheating.
- You must follow all directions given by the instructor. If you do not understand the direction, raise your hand for assistance.
- Leave your area and classroom clean. Chairs must be returned to their proper place. You must report immediately any vandalism to the instructor.
- Read your Student Handbook very carefully. Consult your teacher for any clarifications.
- Attendance and Tardies
 1. Excessive absences may result in loss of class credit. Refer to your Student Handbook for further information.
 2. Unexcused tardies will be documented. As soon as you arrive late, you must sign the tardy sheet before you sit down. You will be considered tardy if you are not in your seat when the bell rings. The consequences of multiple tardies will be as described in the Student Handbook.

ACROSS THE CURRICULUM ACTIVITIES:

- Organization and Class Preparation - The teacher will advise students during the first week of school regarding the importance of being prepared daily for class. You are expected to actively participate in all class activities. Taking notes, paying attention, answering questions, and class preparation are important to your academic success. It will be required that the students have all the items listed in IX. E. above each day when class begins.
- Writing- Students will put into practice writing techniques which they have developed in their English classes. The teacher will include writing assignments and essay questions on exams, which will be part of the exam grade. Students may write a library report during the course of the year.
- Reading/Learning Strategies/Study Skills - A variety of techniques, such as two column notes, graphic organizers, mind maps, etc., will be modeled and used extensively. Students may use multi-pass to preview textbook chapters.
- Technology - The school-wide multimedia management system, computer labs, PC accessories, and the Internet will be used and/or taught to students throughout the year.
- Problem-Solving Strategies - The process of the scientific method of inquiry will be used as a guideline for solving scientific, as well as everyday, problems.

EVALUATION

- Criteria for Arriving at Student Grades - The students grade will be based on the cumulative number of points earned on examinations, class participation, homework, laboratory exercises, research, class assignments, and the notebook.
- Explanation of Student Grades:

A	90% - 100%	Excellent
B	80% - 89%	Above Average
C	70% - 79%	Average
D	60% - 69%	Below Average
F	Below 60 %	Failing
I	Incomplete (needs to make-up work)	

NM

No Mark (cannot be given credit)

- Grade Reports
 - Grades will be provided to students on a regular basis to notify students of their progress. Specifically, the teacher will tell the student the current grade in percentage terms. The teacher will also let the student know what he/she could do to improve.
 - A progress report will be received mid-way through each quarter.
 - Final grades will be reported at the end of each quarter.
- Citizenship- These grades are determined according to how well a student's behavior and attitude in class enhance the learning environment.

U - Unsatisfactory (parent will have been notified): Student negatively affects the learning environment.

S – Satisfactory: Student successfully contributes to the learning environment.

O – Outstanding: Student is an excellent role model and has a positive influence on the learning environment.

N- Needs Improvement: Student periodically disrupts the learning environment with inappropriate comments or behaviors.

Mr. Franco's Expectation Addendum for Parents/Guardians:

TARDIES: It is extremely important for students to realize that punctuality is an important component of classroom behavior. I do not try to decide who was running into the class as the bell rings. It is also important to create an environment that reflects the value of education. That's why **a student is considered tardy if they are not in their seat** when the tardy bell rings. They should not be standing at a friend's desk or socializing across the room. Focus should instead be on turning in homework and preparing for the days activities. In addition to enforcing the Palo Verde tardy policy, there are also some immediate consequences for tardiness in class. Homework is considered late for the day (half credit), and a student will not be allowed pass privileges during class (If it is an emergency, the student will have to serve 20 minutes of detention). One or two late assignments are not critical to determining an overall grade due to the numerous assignments given throughout the quarter. These consequences **can become** detrimental to a student's grade if they have a chronic tardy problem.

Late Work: Homework is **due within the first few minutes** of class. Assignments turned in late due to tardiness will count as late. Students have been instructed on how organizational skills will prevent late work from occurring and one way to evaluate this skill is through the occurrence of late- work. In fairness to all students, being seconds late or looking for it in your backpack still makes the assignment late.

Absences: This is a Laboratory oriented class and attendance is extremely important for a student's success. I understand some absences are unavoidable, and I try to allow students to make up all absence work, but there are some labs that students can't make up. Sometimes there is no substitute for the lab experience itself, and since this is a laboratory-based class, students are held accountable for the experience gained in each lab. If the equipment or materials are still available for the student upon their return from an absence then they can make up the lab after school with me, if not then they will have to miss the points for that lab experience. Once again this is not usually detrimental to a student's grade unless they have a chronic attendance problem.

Make-Up Work: Students must see me before or after school to get work missed during absences. It is the student's responsibility to get their absence work from me immediately on their return. They will have one block day per excused absence to return all work to me. **Tests or quizzes missed must be made up before or after school.** Unexcused (UNX) or Unverified (UNV) absences will considered late. So make sure your student gets a **note turned into the office within 3 days of the absence.** Work that was due the day of the absence needs to be turned immediately upon return.

Electronic Devices: Electronic devices in the classroom that are being used for non-educational purposes will not be tolerated. Also, please understand that to avoid discussion of the topic during class time the offending device will be confiscated and **turned in to the dean's office.** If getting in contact with your child is urgent, please call the office and they will get in contact with your student. If an electronic device must be brought to school, make sure your student knows it should be turned off and out of sight during class time

Website and Parentlink: My webpage is <http://www.fmfranco.com>

Parents, please visit my webpage often. I have my lesson plans posted for at least 2 weeks ahead of time. You can see what assignment your student is working on in class and can also see the homework assignments. Parentlink will allow you to see what is in my gradebook and is updated daily. Please contact me via email at **francfm@interact.ccsd.net**

Turn This Page In

Please share and discuss the above Course Expectations with your Parents/Guardian. Return this page, properly completed and signed by all parties, on the date requested by your teacher.

COURSE TITLE: Anatomy and Physiology Honors

TEACHER: Frank Franco

I HAVE READ AND UNDERSTAND THE ABOVE COURSE EXPECTATIONS.

Print Student Name: _____

Student Signature: _____ Date _____

Parent/Guardian Signature: _____ Date _____