

# ANATOMY & PHYSIOLOGY H

## Course Expectations

*Mrs. San Martin*

2019-20

### **COURSE SCOPE**

This is a one-year course designed for those students who exhibit interest in further study in biological science. Topics included are the structure and function of all human body systems. Demonstrations, laboratory experience, dissection (sheep and cat), problem solving, and case study work are an integral part of this course. This course will fulfill one elective credit of the Nevada high school graduation requirement and qualifies as a laboratory science for college entrance.



### **Textbook: Essentials of Anatomy & Physiology**

\*Care for the textbook is the student's responsibility.

Students will be held accountable for any damages or unreturned books.

**Replacement cost: \$80.00**

**Pre-Req:** successfully completed Biology and Chemistry and at least a Junior in the medical magnet program and/or concurrent enrollment with core science class

**Magnet Lab Fee:** \$40 (subject to change)

### **COURSE OBJECTIVES**

1. To develop an understanding of the organization of the human body
2. To analyze the relationship between tissue structure and function to the complexity of organ systems
3. To understand the role of each body system in maintaining the homeostatic balance of the human body
4. To recognize the relevant pathologies associated with human body systems
5. To examine the relationships among systems that provide protection, support, and movement
6. To examine the relationship between integration and control systems
7. To examine the relationship between regulation and maintenance systems
8. To develop an understanding of human development and reproduction
9. To explore career opportunities in medicine and related fields

### **PERFORMANCE OBJECTIVES**

- Students will develop an appreciation for the human body
- Students will be prepared for entrance into the field of higher education

### **COURSE CONTENT**

1<sup>st</sup> Quarter: Biochemistry, Cells, Histology, Frame of Reference, System, Skeletal System, Articulations

2<sup>nd</sup> Quarter: Integumentary, Muscular System, Nervous System

3<sup>rd</sup> Quarter: Sensory Organs, Cardiovascular System, Endocrine System, Lymphatic

4<sup>th</sup> Quarter: Respiratory System, Digestive System, Urinary System, and Reproductive System

## **COURSE ACTIVITIES**

**Homework:** Homework will be assigned occasionally as a review from the material presented in class or reflections on content. Homework will be turned in the homework basket and is due when the tardy bell rings. Late work is **NOT** accepted.

### **Projects:**

Projects will be assigned periodically regarding Medical Portfolio's, career fields of interest, or current research. Projects turned in after the due date will receive 10% a day deduction. Being absent on the day a project is due is not an excuse.

### **Tests and Quizzes:**

Tests and quizzes will be given on a regular basis to determine your individual progress and ability to apply information. Almost all information covered on tests and quizzes will come directly from your notes, labs, case studies, and the ability to think critically.

### **Make-up work:**

If you are absent, it's your responsibility to do the following: check the daily log, turn in any assignments that were collected while you were gone, get any assignments given out, and if notes were taken be sure to get a copy from a classmate. You have 3 days to turn in any work assigned while you were gone. After 3 days, it is considered late and will not be accepted. If you miss a quiz, it is your responsibility to reschedule the make-up quiz with me in a reasonable time frame (1-3 days after your absence). Tests missed will be made up **the day** you return to class, during class time!

### **Lab Work:**

Specific guidelines will be set forth for each laboratory to ensure the safety of yourself and others (see attachment). Misbehavior in any lab activity will result in removal from the lab and a zero for that lab. Severe behavior problems will result in an immediate dean's referral. If you are absent on a lab day, either an alternative assignment will be given or, if possible, arrangements need to be made to make up the lab within 3 days.

### **Participation:**

Group work is done often. However, your participation in this work will be noted. Your grade may be different than your groups due to lack of staying on task or being absent and not making it up.

### **Professional Dress:**

At the beginning of the week (Monday or Tuesday, depending on A/B schedule) you will be required to wear professional dress (ie. Scrubs for medical students; professional dress for athletes/non magnet students).

### **Extra Credit:**

Because this is a college preparatory course, **rarely** will extra credit be given!

## **GRADING**

Academic Grade:

100 – 90.0%	A	
89.9 – 80.0%	B	* unused bathroom passes is the
79.9 – 70.0%	C	only way a grade will be rounded up
69.9 – 60.0%	D	at semester (max. 0.75%)
59% and below	F	

Semester grades will be determined by a weighted average from 2-quarter grades and a semester exam as follows:

$$\text{Semester Grade} = 1^{\text{st}} \text{ qtr. Grade (40\%)} + 2^{\text{nd}} \text{ qtr. Grade (40\%)} + \text{Semester Exam (20\%)}$$

## **Citizenship Grade**

In addition to a quarterly academic grade, students will also earn a citizenship grade

O = Outstanding

S = Satisfactory

N = Needs Improvement

U = Unsatisfactory

Those students who display exemplary attitude, behavior, participation, effort, punctuality, and attendance will earn an "O". Those students who display satisfactory effort and have less than 3 tardies will earn a citizenship grade of "S". Students displaying inappropriate classroom behavior, poor attitudes or effort, or having poor attendance/tardy records will earn an "N". Any student with 4 or more unexcused tardies and/or a dean's referral will automatically receive a "U" in citizenship.

## **Communication:**

Grades will be updated in Infinite Campus on a regular basis. This is an excellent way to keep track of your grades and attendance. Also, if you are going to email me ([sanmap@nv.ccsd.net](mailto:sanmap@nv.ccsd.net)) please put the student's name in the subject line. Finally, all assignment due dates will be posted on the calendar on the website <https://ranchobiology.educatorpages.com/pages/anatomy>

## **Availability for Extra Help:**

I am available a few minutes before and after school with prior arrangements for extra help. If more time is needed, I will gladly make an appointment to better help students.

## **Scholastic Dishonesty:**

Scholastic Dishonesty (cheating) will not be tolerated in this classroom. Students will receive a zero grade for **ANY** assignment or test where the student has violated this policy.

## **STUDENT EXPECTATIONS**

I have the right to teach, and other students have the right to learn; therefore anything done to disrupt this process will be considered a discipline problem and will be handled accordingly.

### **Rules**

1. Come to Class Prepared
2. Listen to the Teacher
3. Follow Directions
4. Respect Others/Property
5. Follow CCSD Policies (ie. Dress Code, Cell Phones, mp3 players, etc.)
6. All jokes made by the teacher, no matter how ridiculous you think they are, must be tolerated with a smile 😊

### **Consequences:**

Disruptive behavior will be handled in a progressive manor.

1<sup>st</sup> - Verbal warning

2<sup>nd</sup> – Held after class

3<sup>rd</sup> – Detention for 30 min

4<sup>th</sup> - Referral to dean

Severe disruptions will automatically result in a referral to the Dean's office.

### **Tardies:**

If you are not **in** your assigned seat when the bell rings – you are tardy. Your first tardy will result in a warning. Your second tardy will result in a 15 min. detention. Your third tardy will result in a phone call home and a 30 minute detention. Your fourth

tardy will result in a referral to the dean's office. If you have an excused tardy, hand it to me, turn in any homework that was due, and go immediately to your seat quietly. Any other school tardy policy will also be enforced (ie Tardy Lock-Outs).

### **SAFETY GUIDELINES:**

The investigations in this class are designed to give you a "hands-on" experience with the various concepts you are studying. In order to make the laboratory a place of learning and discovery, it must be a safe place to work. Safety in the lab is as much a part of the scientific process as is organization, observations and logical thinking. Safety is **YOUR** responsibility and that of every student in the lab. You will be required to know the following safety rules and sign a contract stating you agree to abide by these rules and any other rules the teacher announces.

#### *Electrical Safety*

- Never handle electrical equipment with wet hands. Work areas, including floors and tables, should be dry
- Keep electrical cords away from areas where someone may trip on the cords, or where the cords can tip over laboratory equipment

#### *Chemical Safety*

- Never taste any substance in the laboratory
- Do not inhale fumes directly. Wave fumes towards your nose if needs be.
- Properly label all bottles and test tubes containing chemical
- Never return unused chemicals to the original container
- Alert your teacher to an chemical spills
- If a substances get on your skin, rinse immediately with cool water and alert your teacher
- Always add acids to water
- When shaking or heating a test tube, always point the test tube away from yourself and other students
- Never use an open flame when working with flammable liquids

#### *Protection*

- Confine loose clothing and tie back long hair
- Wear laboratory aprons when necessary
- Know where the eyewash station is located and how to properly use it
- Wear safety goggle in the laboratory when needed
- Make sure you know the location of the fire extinguisher and fire blanket
- Know where to meet during a fire alarm
- Never reach across an open flame
- Turn off gas valves, Bunsen burners, and hot plates when not in use

#### *Equipment*

- Check the condition of equipment before and after using it. Inform your teacher about any broken, chipped, or cracked equipment
- Never place equipment near edges of your work surface
- Use tongs when heating test tubes
- Dispose/clean/dry of equipment according to the instruction of your teacher

#### *Hygiene Care*

- Always wash your hands after the laboratory
- Keep your hands away from your face and mouth

# ANATOMY & PHYSIOLOGY - H

Parent/Guardian: Please review these expectations and consequences as well as the safety rules with your student. Then, both of you sign below stating that your student understands and agrees to follow the safety rules and policies set forth in this course expectation.

Student's Printed Name: \_\_\_\_\_

Student's Signature: \_\_\_\_\_

Parent/Guardian Name's (print): \_\_\_\_\_

**\*\*Parent/Guardian Signature:** \_\_\_\_\_

Parents Phone# \_\_\_\_\_ E-mail \_\_\_\_\_

---

---

## HUMAN REPRODUCTION

Throughout the year, the students may participate in discussions and/or view movies related to the structure and functions of the human reproductive system. If you do not wish for your student to participate in these discussions or view these videos, he/she will be provided with other assignments during these occasions. Please check the appropriate box below and sign below. If there are any questions or concerns, please call Mrs. Crouch at 799-7000.

My student can participate in these discussions and/or view videos on these subjects.

**I DO NOT** wish for my student to participate. Please provide optional assignments.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**\*\*Parent/Guardian Signature:** \_\_\_\_\_