

# Honors Human Anatomy and Physiology 2020-21

## Richmond Community High School

Instructor: Ms. Spencer  
Email: [kspencer@rvaschools.net](mailto:kspencer@rvaschools.net)  
Class Website: SciSpencer.weebly.com  
Digital textbook: Readings will be assigned via <https://www.ck12.org/student/>  
Students will sign up using class code: o2axe  
Office hours: Wednesdays - contact me in advance to arrange tutoring/help on these days

### Materials

- 1 notebook to write & organize notes
- RPS student kit (provided by RPS)
- RCHS science kit (provided by RCHS)

### Course Description

Human Anatomy and Physiology is an introductory course designed for students who have demonstrated an advanced level of interest and achievement in life sciences. This course requires higher order thinking skills such as analysis, synthesis, and critical thinking. It emphasizes problem-solving skills necessary to examine alternative scientific explanations, conduct experiments, analyze and communicate information, and gather and use information in scientific literature.

Anatomy and physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will also learn the mechanisms for maintaining homeostasis within the human body. This course will involve laboratory activities, projects, dissections, textbook material, models, diagrams, essays, and case studies. Students will explore biological concepts through an inquiry approach. The importance of scientific research that validates or challenges ideas is emphasized in this course.

### Expectations

All students must adhere to the RCHS and class rules:

- Respect our time - be logged into the Google Classroom meeting by start of class  
- stay in the Google Meet until dismissed!
- Be present - no distractions while we are together (e.g., your phone!)
- Respect one another - the Golden Rule is the keystone of our classroom community
- Cooperate and participate - YOU are a vital part of this course!
- **Ask for help!!!** I am here to help, so please take advantage of that as a resource!

### Life in the Virtual Classroom

For the virtual classroom, we will use Google Classroom as our main hub of activities and assignments. The class meeting (video) link can be found in the top banner of our "class stream" page. For days that we have planned to meet, it is essential that you join the meeting on time and free yourself of distractions. Our goal is to build a strong classroom community, just as we would in person. A major part of this is your presence and engagement with the class, with me, and with your

fellow scholars. To optimize our experience, please mute your microphone when not speaking to the class! I also ask that you keep conversation in the chat bar on-topic and to a minimum.

**NOTE: If your instructor loses connection during a class meeting, you will receive an email with instructions on what to do that day. If you lose connection during class time, simply email the instructor to let them know and get the materials you need to catch up.**

## Grading

Grades will be based off of a percentage grade system:

40%: Assessments (tests, projects)

30%: Virtual labs & digital interactives

30%: All other assignments

## Late Work Policy:

Students are expected to submit all work on time. A penalty will be imposed when assignments are not submitted on time. **For each day late without a legitimate, written excuse, 10% will be deducted from the grade. Assignments will not be accepted after one week beyond the initial due date.**

## Honor Code:

All RCHS students are expected to follow the school's honor code. **Students caught cheating, copying work, allowing others to copy their work, or plagiarising the work of others will be reported to the RCHS Honor Council.** The purpose of this policy is to maintain fairness and foster the skills necessary to compete in college and future careers.

## Laboratory Investigations

Investigations are designed to promote critical thinking, to analyze and interpret data, and to form conclusions. This year, most of our labs will be virtual or video demonstrations. However, in cases where students have the option to conduct at-home labs and field research, **all students are expected to follow all lab safety rules. If you are absent for a guided lab or lab demo, you must contact the teacher within 2 days of your absence and make arrangements to complete the lab.**

## Attendance, Tardiness and Absences:

Due to online learning, attendance will look slightly different this semester. Students must still try to attend every scheduled class meeting. We will still be taking notes and working through activities together, so tardiness and absences can have on your academic progress. However, some days we may not meet for a full class period, and students will submit work or a Google Form in lieu of a traditional roll call (teacher will let students know ahead of time).

Students are responsible for securing missed assignments and/or notes. If you miss an assignment, test, quiz or lab, it is your responsibility to make it up ASAP. Extenuating circumstances should be discussed with the teacher and substantiated by a written note from your parent/guardian. All planned absences should be shared with the teacher ahead of time and all assignments gathered before leaving. All assignments should then be submitted upon your return.

**- Complete the Student & Guardian Contract on Next Page -**

Contact/Permission/Lab Contract Form for Human Anatomy and Physiology

**Student:**

**I have read, understand and agree to the course syllabus, expectations, and all safety rules.** I understand the high level of student independent effort required to succeed in this class. I understand that failure to abide by safety regulations will result in my dismissal from the lab or field study and that I will be unable to complete these assignments. I understand that late assignments will result in reduced credit, and late assignments will not be accepted after one week.

**Parent:**

**I have read, understand and agree to the course syllabus, expectations, and all safety rules for this class.** I understand the high level of student independent effort required to succeed in this class. I understand that my child's failure to abide by safety regulations will result in their dismissal from the lab or field study and that they will be unable to complete these assignments. I understand that if my child turns assignments in late, this will result in reduced credit, and late assignments will not be accepted after one week. **I give permission for my child to participate in this course's laboratory and outdoor field studies near and around their home.**

Printed student name \_\_\_\_\_ Block \_\_\_\_\_

Student address \_\_\_\_\_

Student g-mail address \_\_\_\_\_

Student phone number(s) \_\_\_\_\_

Parent or guardian printed name \_\_\_\_\_

Parent e-mail address \_\_\_\_\_

Parent phone number(s) \_\_\_\_\_

Student signature \_\_\_\_\_ Date \_\_\_\_\_

Parent signature \_\_\_\_\_ Date \_\_\_\_\_

**Please list any allergies that your child has, and indicate if your child wears contacts.**

Allergies:

Does student wear contacts? \_\_\_\_ Yes \_\_\_\_ No

## 2020-21 H Anatomy & Phys Course Outline

Unit 1: Introduction to Human Anatomy & Physiology

Unit 2: Cells, Tissues & Genetics

Unit 3: The Reproductive System

Unit 4: The Endocrine System

Unit 5: The Lymphatic System

Unit 6: The Integumentary System

Unit 7: The Muscular System

Unit 8: The Skeletal System

Unit 9: The Respiratory System

Unit 10: The Circulatory System

Unit 11: The Digestive System

Unit 12: The Urinary System

Unit 13: The Nervous System