

## Physiology H Syllabus 2017-2018

Welcome to Honors Physiology! I expect that you have enrolled in this course because you are interested in science and motivated to succeed. Those of you who participate, work hard, and behave accordingly will enjoy both positive recognition and success.

### 1. Course Description/Objectives

This year, we will examine the anatomical structures of the body, while focusing on the relationship between their *structure* and *function*. All body systems will be covered from a microscopic to macroscopic level.

We will also develop key scientific practices throughout this course including:

- Asking **questions** and defining problems
- **Developing** and using models
- Planning and carrying out **investigations**
- Analyzing and **interpreting** data
- Using mathematics and computational **thinking**
- Constructing **explanations** and designing solutions
- Engaging in **argument** from evidence
- Obtaining, evaluating and **communication** information

### 2. Materials

ALL SUPPLIES MUST BE OBTAINED BY MONDAY, AUGUST 28<sup>TH</sup>!

*Mandatory:*

- Signed copy of your syllabus agreement **and** lab safety contract
- Textbook
- Large (1 ½ - 2") binder with 10 dividers to separate materials for each unit (specifically for Physiology)
- Loose-leaf notebook paper
- Writing utensil (Blue or black pens, #2 pencils, highlighters recommended)

*Recommended:*

- *This is Your Brain on Music* by Daniel Levitin (class copies available; however recommended if you want your own copy for annotation/ further reading)
- Colored pencils
- Ruler

### 3. Classroom Policies

#### ***\*Attendance/ Late and Missing Work***

It is in your best interest to be present in class whenever possible. We will be covering lot of interesting, useful information that you don't want to miss! If you **cut class** (meaning that your absence is denoted *unexcused*) you will not receive credit for work due, completed, or assigned that day. School policy dictates that I must also issue an office referral. Don't cut class!

If you are absent, it is your responsibility to find out what you missed and make-up the work. You must make arrangements for making up missed work the day you return to school; otherwise a zero will be given for missed assignments. It is best to make arrangements during support periods, or before or after school. If that is not possible you may set up an appointment for another time if I am given advanced notice. Work that is **more than one week late** will not be accepted for credit.

If you are unable to come see me, you may check the course website or ask your classmates for missed material. (Extra copies of assignments will be located in the Physiology Absent Work Binder filed under the day of the week they took place).

### ***\*Be Prepared***

Always come to class prepared! Whether this means having the notes printed or feeling ready for a test or quiz, it is your responsibility to be prepared. I will always give plenty of notice and reminders for major assignments/assessments, but I also expect you to be ready to go!

## **4. Student Responsibilities and Expectations**

My expectations of you are very high, and I hope that you expect the same out of me. I am really looking forward to working, growing and learning together this year. In order to achieve our goals, I have a few basic classroom rules that you *must* follow.

1. Always show **respect** to yourself, your classmates, me, and the rest of the CHS community.
2. **Work hard** so that we all can get the most out of this course together.
3. Participate frequently and **ask questions!**
4. Get **permission** from me before using your cell phone or other electronic devices, leaving the classroom, or using any lab equipment/etc.
5. Do not use vulgar or offensive language. Be inclusive, friendly, and respectful!

## **5. Grading Policy**

Your grade will be updated weekly on Aeries. You should continually track your grade online to ensure that you do not fall behind. Grades are calculated based on points earned – I do not use weighted categories for grading.

A+	98-100	B+	88-89	C+	78-79	D+	68-69
A	93-97	B	83-87	C	73-77	D	63-67
A-	90-92	B-	80-82	C-	70-72	D-	60-62
						F	0-59

Types of assignments in this course will include: Notes, in-class work, homework, lab reports, projects, quizzes, and tests. There will be a major project or test for each unit. At the end of the year, there will be a cumulative class-wide project to conclude the course (more on this later!)

During Unit 7 – The Nervous System, we will read excerpts from a book titled, *This is Your Brain on Music* by Daniel Levitin. As noted above, purchasing the book is recommended, but not required (you can find it on amazon.com or at a local bookstore). I have class copies available, and will post excerpts online if you do not wish to purchase your own copy.

There are also quite a few dissections this year – these are **mandatory**. You will work in groups, so you are not required to physically dissect the specimen, however you are required to participate!

### **\*Cheating**

I have a zero-tolerance policy for cheating. If you are caught cheating, **you will receive a zero** for that assignment. You will also be referred for a cheating contract. Cheating includes, but is not limited to, using a cell phone or other electronic device during assessments, copying someone else's work, using a "cheat sheet" for a test or quiz, texting questions or answers, turning in identical work as another student or lab partner, and passing information between classes.

## **6. Additional Information About the Class**

### **\*Extra Help**

If you are struggling with the course please see me as soon as possible. I am here to help you learn! Please come see me before or after school, or during support time; just let me know when you can come in and we'll set up a time to meet. *This way, I can devote my full attention to the problem and make our time together more productive.*

## **7. Topics Covered**

Unit 1 – Introduction to Human Anatomy and Physiology

Unit 2 – Histology

Unit 3 – The Integumentary System

Unit 4 – The Skeletal System

Unit 5 – The Muscular System

Unit 6 – The Special Senses

*\*Sheep Eye Dissection*

Unit 7 – The Nervous System (& *This is Your Brain on Music*)

*\*Sheep Brain Dissection*

Unit 8 – The Endocrine System

Unit 9 – The Cardiovascular System

*\*Sheep Heart Dissection*

Unit 10 – Overview:

-The Respiratory System

-The Digestive System

-The Lymphatic System

-The Immune System

-The Urinary System

-The Reproductive System

*\*Dogfish Shark Dissection*

*\*Fetal Pig Dissection*