Biology

2022-2023 school year

#### Instructor: Chrystal Vining

**Text:** Biology Publisher- Prentice Hall/ Pearson Education, Inc. (Replacement Cost - $72.90)

**Grade Level** – 10th

**Email/phone**: chrystalvining@atkinson.k12.ga.us 912-422-3267

**Course Description:** The focus of biology is to learn about the world around us and the organisms that inhabit it. We will study modern biological principles to increase awareness of the relationships between scientific thought, current knowledge in biology, and everyday living.

# Objectives

Information in this course is correlated to the Georgia Performance Standards (GPS) as mandated by Georgia’s State Board of Education

**Co-Requisite – Characteristics of Science**

**Habits of Mind**

**SCSh1**. Students will evaluate the importance of curiosity, honesty, openness, and skepticism in science.

**SCSh2.** Students will use standard safety practices for all classroom laboratory and field investigations.

**SCSh3**. Students will identify and investigate problems scientifically.

**SCSh4**. Students will use tools and instruments for observing, measuring, and manipulating scientific equipment and materials.

**SCSh5.** Students will demonstrate the computation and estimation skills necessary for analyzing data and developing reasonable scientific

explanations.

**SCSh6.** Students will communicate scientific investigations and information clearly.

**SCSh7**. Students will analyze how scientific knowledge is developed.

**SCSh8**. Students will understand important features of the process of scientific inquiry.

**SCSh9**. Students will enhance reading in all curriculum areas.

##### Co-Requisite – Content for Biology

**SB1.** Obtain, evaluate, and communicate information to analyze the nature of the relationships between structures and functions in living cells.

**SB2**. Obtain, evaluate, and communicate information to analyze how genetic information is expressed in cells.

**SB3.** Obtain, evaluate, and communicate information to analyze how biological traits are passed on to successive generations.

**SB4**. Obtain, evaluate, and communicate information to illustrate the organization of interacting systems within single-celled and multi-celled

organisms.

**SB5**. Obtain, evaluate, and communicate information to assess the interdependence of all organisms on one another and their environment.

**SB6.** Obtain, evaluate, and communicate information to assess the theory of evolution.

**This course has a Georgia Milestones Test that counts as 20% of the student’s overall grade.**

**Methods of Instruction:** A variety of methods will be employed to achieve this objective: classroom lecture, problem solving, lab work, and both collaborative and independent projects, with a focus on reading, technical writing and technology integration. Critical thinking and reasoning skills will be emphasized strongly over rote memorization.

# Materials

* Notebook- 3 ring & Notebook paper, 70 page spiral bound notebook to be used for interactive notebook
* Pencils and blue or black pens
* 1 piece of poster board (any color)

**Class Procedures:**

## Beginning of Class/ General

1. ***NO WHINING!!! This is a class required for graduation. Be prepared to do your work WITHOUT COMPLAINT!!!***
2. ***CELL PHONES, APPLE WATCHES or any other device capable of sending/receiving information will be placed in a box on my desk when you enter my room. You may get them back at the end of class. NONE OF THE AFOREMENTIONED ITEMS WILL BE IN YOUR POSSESSION DURING CLASSTIME! IF THEY ARE IN YOUR POSSESSION and I see using them for ANY reason, I will have the principal or assistant principal remove you and your device from my classroom where you will receive your punishment according to the handbook.!!!***
3. *COME TO CLASS PREPARED!!!!* Bring your textbook, notebook, paper, pens, pencils, and assignments EVERYDAY!!!
4. READ THE BOARD FOR ANY ASSIGNMENTS AND WRITE THEM DOWN IN YOUR NOTEBOOK.
5. *WHEN I AM TALKING, YOU ARE NOT!!!!* This is especially important during the time I’m giving instructions or other information.

###### Leaving Class:

I document each time you leave class for any reason. Please do your best to stay in class and use your time outside of class wisely. The amount of time spend out of class is directly proportional to your grade.

## Homework

1. Homework is due at the beginning of the period on the following school day.
2. Each day’s homework assignment will be posted on the left-hand side of the board in front of the classroom.

## Makeup Work

1. If you have an excused absence it is the student’s responsibility to get the work. If you need additional

explanations, see me before or after class. I am more than happy to help you. We will arrange a time for you to

make up a test or quiz.

## Tardies

1. See school policy on tardies.

## Group Work

1. At times, you will work in groups. Sometimes you will turn in one product and sometimes you will be asked to turn in individual products for assessment.
2. Discussion of the subject at hand during group work is expected but I expect group members to be considerate of others.

**Grading Policy**

This means that you accumulate points with projects, labs, tests, quizzes, homework, portfolios and your notebook. Missing assignments will bring your grade down SIGNIFICANTLY. It is the student’s responsibility to make up work. **Something is better than nothing. Please turn in your work. It can’t hurt to try and turn in an assignment at any point!**

* Tests/Projects - 50%
* Daily Assignments (classwork, reading assignments, homework, etc.) - 20%
* Quizzes/Labs - 30%

\*\*\*I do not give extra credit for anyone nor do I drop low grades. There will be numerous opportunities for all class members to earn credit.\*\*\*

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**SIGN & RETURN**- Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Your signature indicates that you have read, do understand, and will support the class policies in the syllabus. I, the teacher, reserve the right to add or detract any information from this syllabus and will inform students of such changes.

Parent/guardian signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ e mail\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Thank you for letting me teach your child!