

AP BIOLOGY ~ 2018-2019

SUMMER ASSIGNMENT & COURSE READING ASSIGNMENTS

To all AP Biology Students and their Parents:

May 2018

Welcome to Advanced Placement Biology. I have put together this AP Biology Course Outline to help guide you through what will be a very challenging, yet rewarding, course. AP Biology is an extremely self-directed class that will require time management and organizational skills from everyone. We will be covering most of the material in a college-level textbook and we will be doing 12, in-depth, labs over the course of the year.

What we have ahead of us is a demanding task. The course description, as set forth in the AP course handbook states: The AP Biology course is designed to be the equivalent of a college introductory biology course taken by biology majors during their first year. As a consequence, we will be covering, on average, a chapter a week (sometimes more) out of a college-level textbook for the entire year. The end result will be a much deeper knowledge of biology and (hopefully) a passing score on the AP Biology exam, which might lead to receiving college credit for all of your hard work.

Please understand that YOU, way more than I, will determine your success in this course. The course goes at a rapid pace for the whole year and nothing less than your full attention will be needed to keep your head above water.

I expect that all of you will have all of the required materials (see AP Biology Syllabus) on the first day of class and that these materials will be brought to class daily. Please keep the AP Biology textbook that was checked out to you at home in a safe location. You should be reading the AP Biology text book nightly so I do not expect you to carry it to and from school every day. If a textbook is required for a lesson at school, then I will provide you with one.

Below you will find the AP Biology Summer Assignment. To complete this assignment, you will need to check out the AP Biology textbook from the library before the end of this school year. The AP Biology Summer Assignment is due the first day of class. In addition to the Chapter 1 and 2 written work, you should ALSO read the assigned chapters for Big Idea 1. You should be ready to discuss the information in these chapters on the first day of class.

If you have any questions about the AP Biology course, then please come by my room (121) or email me at rwingerden@righetti.us. I am grateful for the opportunity to be your instructor and am looking forward to working with each of you next year as we explore the dynamic world in which we live.

~ R. R. Wingerden

BEFORE THE END OF THE 2017-2018 SCHOOL YEAR ~

- **Returned** *signed* STATEMENT OF UNDERSTANDING to **Mrs. Wingerden** to be eligible for enrollment in AP Biology course.
- **Attend Lunch Meeting** *May 2018* in room 121 from 12:30 to 12:40pm **Please be on time.**
- **Check Out** the course text book *Biology AP Edition - Campbell & Reece (8th Edition)* from the library. Contact the Righetti High School Library to determine when the book will be available for check out or refer to the course webpage (<http://www.rwingerden.com/apbio/SummAssign/>). Please note that checking out this text book is **YOUR RESPONSIBILITY**. Failure to acquire a book from the ERHS Library during the schedule time will not exclude you from completing the AP Biology Summer Assignment.

SUMMER ASSIGNMENT ~

The AP Biology Summer Assignment should be ORIGINAL work and *handwritten*. This assignment is **due at the start of class on the first day of class (Aug. 2018)**.

1. Read Chapter 1 ~ *Introduction: Themes in the Study of Life*

After you have read Chapter 1, complete the following **TESTING YOUR KNOWLEDGE** questions on pages 26-27:

- **SELF-QUIZ #1-11**
 - For full credit, each SELF-QUIZ response should include the *correct answer to the question*, be it a letter choice, written explanation, or labeled drawing and the *page number of the text book that the response was found*.
- **EVOLUTION CONNECTION #12**
 - All written responses should be in a *well constructed paragraph* that includes a *restatement of the question* you are answering in the paragraph's introduction. Please proof read your work!
- **SCIENTIFIC INQUIRY #13**
 - Again, all written responses should be in a *well constructed paragraph* that includes a *restatement of the question* you are answering in the paragraph's introduction. Please proof read your work!

2. Read Chapter 2 ~ *The Chemistry of Life*

After you have read Chapter 2, complete the following **TESTING YOUR KNOWLEDGE** questions on page 45:

- **SELF-QUIZ #1-9** (see above for requirements)
- **EVOLUTION CONNECTION #10** (see above for requirements)
- **SCIENTIFIC INQUIRY #11** (see above for requirements)

3. Read Big Idea 1 ~ Chapters: 4, 22, 23, 24, 25, 26

There are a myriad of approaches to learning and you will need to develop your own strategies to master the concepts and content of this course. One requirement for success is to be an **active learner**. Reading your text in a rush, or in a semiconscious daze, does not constitute time studying. The textbook does an excellent job of presenting the material needed to be successful in AP Biology. When you are reading the assigned chapters, please take advantage of all that the textbook has to offer. Before reading a chapter, familiarize yourself with the *Key Concepts* of that chapter. As you read the chapter material, take time to look at the figures and tables presented in the text. Read the captions that accompany the figures and tables and allow yourself the time you need to digest the information presented. At the end of each section, check your current understanding of the material you just read by answering the *Concept Check* questions. At the end of each chapter, there is a *Summary of Key Concepts*. Read this summary BEFORE you read the chapter to prepare yourself mentally for the concepts that will be presented in the chapter. Then, read the *Summary of Key Concepts* AFTER completing the chapter to review what you have just read.