

2017-18 ADVANCED PLACEMENT BIOLOGY APPLICATION

Student Name _____ Date _____

Previous Science Classes _____

Highest Math Class Completed _____ Final Grade in Life Science _____

Directions: You need to complete this form and then give it to your current science teacher for recommendation to this class. Please give this application to your teacher in hard copy form **before the end of the school day (3:15) February 24th**, so that they have the time to complete the recommendation before the application deadline.

Late or incomplete applications will not be considered for enrollment.

CRITERIA FOR ENROLLMENT:

1. Application Essay (see attached page for details)
2. Summer Reading Agreement (see attached form)
3. Recommendation from current science teacher (see attached form)
4. Parent approval
5. Commitment to take the AP Biology exam at the end of the year (\$80 fee)

WAYS IN WHICH CONTENT AND INSTRUCTION ARE MODIFIED FOR HIGH-ACHIEVING AND GIFTED STUDENTS:

1. All materials and workload is at a college level, including text
2. Independent study is required
3. Required reading over the summer prior to class
4. Essay Practice

OTHER INFORMATION:

Because this is a college level lab science course, it makes very heavy demands on the student's time and energy. Students will often be responsible for several levels of assignments at the same time. For example, there will be regular reading assignments, labs to write up, interactive notebooks pages to complete, and major exams to study for. Studying/work for this class should take **at least** 6-7 hours/week outside of class.

PARENT APPROVAL SIGNATURE: _____

Essay for AP Biology Enrollment

Attach additional paper for the room to answer the following questions. Completing the questions to the best your ability will allow me to assess your prior knowledge of some of the major biological concepts we will study. Answer each question as thoroughly as you can, based on what you remember from previous classes; one sentence answers do not show me all that you know.

Please tell me what you know about the following:

1. Atom structure/chemistry
2. Cells
3. Photosynthesis
4. Cellular Respiration
5. Genetics
6. DNA
7. Evolution
8. Ecology
9. Over the summer, Mr. Turner caught 12 perch, 23 trout, and 15 bass on his fly rod. Construct a complete vertical bar graph from this information.
10. Dr. Ratatuey is one of the research scientists at Acme Pharmaceutical Corporation. He wants to see if female mice given drug X can run through a maze more quickly than male mice given drug X. Write a description of how the doctor should design the investigation. Be sure to include:
 - Hypothesis
 - Control for at least two variables
 - Procedure
 - How data will be collected

You need to use words, labeled pictures, and/or labeled diagrams in your description of the experiment!!

Then write a one-page essay that explains your interest in biology. Tell me what topics you enjoy, what questions you may be interested in investigating and what you hope to get from this class. Please include a paragraph about your career goals within the essay.

SUMMER READING AGREEMENT FOR AP BIOLOGY

There are two chapters that you will be reading and taking notes on over the summer. Chapter 1: The Science of AP Biology discusses the 4 Big Ideas of biology, as well as the practices of science, and the science of life. Chapter 2: The Nature of Molecules and the Properties of Water covers atoms, elements, chemical bonds, and water.

These readings will prepare you for the basics of the class and will review chemistry concepts from 9th grade. By completing this you will be setting yourself and classmates up for starting off the year with hands on learning activities.

In order to complete the summer readings you will be emailed the pdf attachments for Chapter 1 and Chapter 2 and will need to purchase one of your 2 composition notebooks, 100 sheets/200 pages, college rule (notebooks with removable pages are not acceptable for science notebooks), from the supply list. You will get the hard copy of your AP Biology book once class starts in the fall.

STUDENT AGREEMENT

I agree to read and take notes on the chapters described above during the summer before enrollment in AP Biology at Spectrum High School.

Student name (please print)

Date

Parent signature

Date

RECOMMENDATION FOR AP BIOLOGY

Student directions: Fill out your name and give your completed application form to your current science teacher to complete.

Teacher Directions: Complete this form. This is private – the student will not have access to this form once you submit it. Please bring the complete form to the science department meeting.

STUDENT NAME: _____

TEACHER NAME: _____

Please rate the student on the following criteria:

	Excellent	Average	Needs Improvement
Homework Completion			
Work Ethic in And out of class			
Motivation for learning new topics			
Interest in Science			
Classroom Behavior			
Lab Skills			

Please list any strengths or weaknesses that would influence this student's performance in AP Biology.