AP Biology Summer Assignment
2023-2024 School Year
Ursuline High School
Miss Raab

AP Biology is an intense and time-consuming course following the curriculum of the College Board. By definition, this is a college-level class. This class is difficult as it will require you to APPLY information, not just memorize. If this is your first AP class, please recognize that this class will be a challenge and likely more difficult than any class you've taken so far in high school. The majority of the class will not get an A. On average, only a third of the class typically earns an A. There is a great deal of material that will be covered over the course of the year in preparation for the national AP exam in May, and since the curriculum is designated by the College Board, I can not make the course easier. You must be prepared to do the work for this class in a timely manner. Plan ahead and set aside time to complete this work. If you cannot meet the deadlines of this assignment, you may want to reconsider taking this course. These warnings are not meant to scare you, but to be sure you understand the difficulty level of the class. If you're up for the challenge, I am happy to welcome you to this year's AP Biology class.

Part 1: I use Google Classroom throughout the school year for announcements and to post notes or assignments, but I may need to contact you through email. **So, your first assignment is to send me an email by July 14th, 2023.** My email address is sraab@youngstowndiocese.org. MAKE SURE YOU USE THIS ADDRESS AND NOT THE UHS.DOYOCS EMAIL ADDRESS. In the email, please do the following:

- Use your school @uhs.doyocs.org account. There will be a number of websites we will use for a variety of uses this school year. This email address should be the email address you use for all websites this year.

- In the subject line, put **your name-AP Biology**
  (ex. Miss Raab -AP Biology)

- In the body of the email, answer ALL of the following, in numerical order. They do not have to be in complete sentences unless requested. ALL questions are mandatory. No exceptions.

- NUMBER your answers. Do not just randomly list the information requested. Again, all questions are mandatory.

1. Your name – first and last. Name you preferred to be called.
2. List of AP and Honors Classes you will be taking during the 2022-2023 academic year.
3. Will you have a job during the school year? If so, where?
4. In what clubs and/or extracurricular activities will you participate this coming school year?
5. What topics in freshman biology did you enjoy the most? The least?
6. Explain in a sentence or two why have you chosen to take AP Biology.
7. What concerns do you have about taking AP Biology?
8. Use the code mfdqt36 to join the AP Biology Google Classroom page. Write a statement confirming that you have joined the Google Classroom page.

9. Write a statement confirming that you have requested acceptance to the AP Biology class on Quizlet to access the summer assignment. (See Part 2.)
10. Write a statement confirming that you have registered for an account on Learn-Biology.com as instructed on the AP Biology Google Classroom page. (See Part 4.)
11. We will be using Edpuzzles as part of the summer assignment and throughout the school year. Write a statement confirming you understand there will be assigned Edpuzzles posted in Google Classroom you are required to complete. (See Part 5.)
12. Write a statement verifying you've read the first paragraph of this letter/assignment and understand that the class is a difficult college-level course but you're up for the challenge. :)

Part 2: Sign in to Quizlet, do a search for the class "AP Biology - UHS - 2324" and request to join the class. I will then approve you in order to give you access to lists I will post throughout the school year.

Part 3: On the last page of this packet is a list of terms/phrases you will be tested on in class within the first two-three weeks of class. I have created a set on Quizlet if you would like to use it to study (see Part 2 above). The test will require the application of the terms, not simple memorization of the definitions. You will receive more information about this assessment at the start of the school year but you should not wait until then to study the terms.

Part 4: Learn-Biology Assignment - This year we are using the Learn-Biology website for some activities and other resources. Attached to the hard copy of this summer assignment is a packet that must be completed as you work through the topics assigned. The topics include The Chemistry of Water and Hydrogen Bonding, Carbon and the Elements of Life, Biochemistry, Cell Structure and Function, and Enzymes. These packets replace the handwritten notes assignment given in previous years. Email me if you did not get a set of packets with this assignment so we can make arrangements for you to receive them. Failure to get the packet will not be a sufficient reason for you to not have the assignment completed in class on the first day of school.

Part 5: Edpuzzle Assignment – You will be expected to complete Edpuzzles that cover various topics in Ecology and/or Natural Selection. These are videos you will be required to watch and you will answer posted questions as you move through the video. DO YOUR BEST. You are able to rewind during the EdPuzzle to find the answers but you will only be able to complete each EdPuzzle once. If you don't already have an account, you need to create one. To do so, you will need to go to EdPuzzle.com. In the top right corner of the site, select "sign up." You will then "sign up as a student" by following the directions. MAKE SURE YOU USE YOUR FIRST AND LAST NAME WHEN CREATING YOUR ACCOUNT. If you use a nickname, I will not be able to give you credit for the work. You will be asked for a class code in order to get to the AP Biology class, the code is: pahunig. The EdPuzzles must be completed by the evening of August 16th (the night before the first full day of classes). You will not need to submit anything to me in class, I will be able to view your progress through the EdPuzzle program.

Warning: the EdPuzzle program marks the answers to extended response questions (any question that isn't multiple choice or T/F) as incorrect until I've reviewed the answers and marked them correct. I will not be reviewing the answers until after the due date. Do not assume the grade given to you by EdPuzzle is accurate.

I look forward to a great year with you!

Terms for Part 3 of Summer Assignment:

1. adaptation of an animal
2. adaptation of a plant
3. abscisic acid
4. actin
5. amniotic egg
6. amylase
7. angiosperm
8. animal that has a segmented body
9. annelid
10. anther & filament of stamen
11. arthropod
12. archaebacteria
13. autotroph
14. auxin producing area of a plant
15. basidiomycete
16. Batesian mimicry
17. biological magnification
18. bryophyte
19. C 4 plant
20. Calvin cycle
21. carbohydrate -fibrous
22. cambium
23. cellulose
24. chitin
25. chlorophyta
26. cnidarian
27. coelomate
28. conifer leaf
29. commensalism
30. connective tissue
31. cuticle layer of a plant
32. deciduous leaf
33. deuterostome
34. dicot plant with flower & leaf
35. diploid chromosome number
36. echinoderm
37. ectotherm
38. endosperm
39. endotherm
40. enzyme
41. epithelial tissue
42. ethylene
43. eubacteria
44. eukaryote
45. exoskeleton
46. fermentation
47. flower ovary
48. frond
49. fruit – dry with seed
50. fruit – fleshy with seed
51. gametophyte
52. gastropod
53. genetically modified organism
54. gibberellins
55. glycogen
56. gymnosperm cone
57. haploid chromosome number
58. heartwood
59. hermaphrodite
60. insect
61. K-strategist
62. keratin
63. leaf – gymnosperm
64. lepidoptera
65. lichen
66. lignin
67. lipid used for energy storage
68. littoral zone organism
69. long-day plant
70. meristem
71. modified leaf of a plant
72. modified root of a plant
73. modified stem of a plant
74. monocot plant with flower & leaf
75. muscle fiber – striated
76. mutualism
77. mycelium
78. mycorrhizae
79. myosin
80. nematode
81. niche
82. nymph stage of an insect
83. parasite
84. parenchyma cells
85. phloem
86. pine cone – female
87. platyhelminthes
88. pollen
89. pollinator
90. porifera
91. prokaryote
92. protein – fibrous
93. protein – globular
94. protostome
95. pteridophyte
96. r-strategist
97. radial symmetry
98. rhizome
99. scale from animal with two-chambered heart
100. spore
101. sporophyte
102. stem – herbaceous
103. stem – woody
104. stigma & style of carpel
105. tendril of a plant
106. thorn of a plant
107. unicellular organism
108. vascular plant tissue
109. xerophyte
110. xylem