ESSAY 1   *Due Wednesday, September 18, 2019*

Answers must be written out in paragraph form. Outline form is not acceptable. Labeled diagrams may be used to supplement discussion, but a diagram without a written explanation will not receive credit. You must cite the source of all information you mention. Include the page number of information from the textbook or the web address of information found online. A copy of the question and additional supporting materials can be found on the course webpage, spraguescience.com.

CHAPTER 2   *Approximately 75% of this assignment is due in class on Tuesday, September 24, 2019*
                                The completed assignment, in its entirety, is due Wednesday, September 25, 2019

Read Hillis Chapter 2 and answer concept questions 2.3, 2.4, and 2.5 in complete sentences. Most of these questions can be answered in one or two sentences. Be sure to read concept 2.2 thoroughly before attempting to answer the concept 2.3 questions.

CHAPTER 3   *Approximately 75% of this assignment is due in class on Wednesday, October 2, 2019*
                                The completed assignment, in its entirety, is due Thursday, October 3, 2019

Read Hillis Chapter 3 and answer concept questions 3.1, 3.3, and 3.4 in complete sentences. Most of these questions can be answered in one or two sentences. Be sure to read 3.2 thoroughly and come prepared with questions or specific points of confusion you would like to go over in this section.

ESSAY 2   *Due Tuesday, October 8, 2019*

CHAPTER 4   *Approximately 75% of this assignment is due in class on Thursday, October 10, 2019*
                                The completed assignment, in its entirety, is due Friday, October 11, 2019

Read Hillis Chapter 4 and answer ALL concept questions (4.1–4.5) in complete sentences. Most of these questions can be answered in one or two sentences.

Hints:
- For full credit on concept 4.1, you must show all work involved in the surface-area-to-volume ratio calculation. It may be easier to simplify the equation of surface-area over volume before plugging the given diameters into the equation.
- In concept 4.3, you are asked to construct a table with information on all eukaryotic cell structures with regard to size, numbers per cell, and functions. However, Hillis neglects to include all this information for each organelle. Fill in as much as you can from the text. The micrograms on pp. 62–63 might be useful for estimating the size of organelles, as each contains a scale.

LAB REPORT   *The draft of your individual section of the group paper is due Friday, October 18, 2019*

AP EXAM FEE   *Due Friday, November 1, 2019*

Payment for all 2019 AP Exams must be submitted to Treasurer's Office, Room 150.