

**CONTRACT &
LAB NOTEBOOK**Due Friday, September 6, 2019

With a parent or guardian, carefully read the course syllabus and sign the contract page.
Bring a bound composition notebook to class to be for lab work.

CHAPTER 41

*Approximately 75% of this assignment is due in class on Monday, September 9, 2019
The completed assignment, in its entirety, is due Tuesday, September 10, 2019*

Read Hillis Chapter 41 and answer ALL concept questions (41.1–41.6) in complete sentences EXCEPT for the first question in concept 41.2. Most of these questions can be answered in one or two sentences.

Hints:

- In concept 41.3, adaptive value refers to the usefulness of a trait.
- In concept 41.6, sexual dimorphism refers to differences in characteristics (in this case they ask about body size) between males and females.
- Also in concept 41.6, an organism that is haploid only carries one copy of each chromosome in its cells; most organisms are diploid, which means that they carry two copies of each chromosome in their cells. In the discussion of eusocial insects (wasps, bees, and ants) on page 816, it is important to note that these organisms reproduce using a process called parthenogenesis, which results in males that are haploid and females that are diploid and creates some very strange social interactions.

Questions for Thought

These questions are NOT required, but may promote some stimulating thought and discussion. You should be able to answer each of the following questions at the end of the chapter.

1. What causes some bees to leave rotting corpses sitting around their hives?
2. What is the role of genetics in the development of bisexual fruit flies and mice?
3. How does evolution drive some animals to be promiscuous?
4. How is it that bees and naked mole-rats can spread their DNA better by NOT reproducing than by having children?

**CHAPTER 1 &
LEARNING TIPS**Due Thursday, September 12, 2019

Read Hillis Chapter 1 and read the “How to Study Like a College Student” article posted to the course webpage (please note that the article is password protected). Complete either ONE of the following assignments:

Option A: For EACH section of Chapter 1 (Concepts 1.1, 1.2, 1.3, 1.4, and 1.5), write a short paragraph summarizing the key idea being discussed.

Option B: For EACH learning tip discussed (retrieval practice, spacing out practice, interleaving, elaboration, generation, reflection, and calibration) in the article posted to the webpage, write a paragraph summarizing the strategy and give an example of how you much use the strategy in AP Biology. In addition, write a paragraph discussed which strategies you think will be most useful, being sure to explain the reasoning behind your decisions.

**AP CLASSROOM
REGISTRATION**Due Monday, September 16, 2019

Register for official practice questions and other resources from the College Board by logging onto <https://myap.collegeboard.org> and entering the class join code.