

# BIO 189 Final Study Guide

It is recommended that you review this study guide to prepare for your midterm in the next module. The final covers learning concepts in Modules 4-7 (Chapters 7-10 in *Biology Today and Tomorrow With Physiology* (8th ed.).

As a reminder, you can access the readings through the Read section of each module.

**Note:** Specific topics can be searched within the eBook by utilizing the search bar located in the upper right-hand corner of the screen.

## Module 4: DNA

### Key Terms – Chapter 7

|  |   |  |
|--|---|--|
| autosomes<br>centromere<br>chromosome number<br>chromosomes<br>clones<br>differentiation | diploid<br>DNA polymerase<br>DNA replication<br>DNA sequence<br>histones<br>karyotype<br>mutation | primer<br>sex chromosomes<br>sister chromatids<br>somatic cell nuclear transfer (SCNT) |
|--|---|--|

- **Develop an understanding of the history of and contributors to the discovery of the structure and function of DNA**
  - What is Erwin Chargaff's rules for base pairing? How do we calculate DNA nucleotide composition?
  - What did Watson and Crick develop?
  - What was Rosalind Franklin's major contribution?
  - What did Hershey & Chase contribute to the discovery of DNA?
- **Describe the leveled organization of genes**
  - What are sister chromatids? How are they organized within the chromosome?
    - What is a centromere?
    - What are histones?
  - What are the components of a nucleotide? Which component differentiates each nucleotide?
    - What is base pairing? What are the nucleotide bases? How are the bases different between RNA and DNA?
    - What type of bond hold the DNA base pairs together?
    - How can the sequence of bases contribute to the diversity among species?
- **Explain the arrangement of chromosomes in humans and the results of abnormal chromosome number.**

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