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* (4th 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 centromere chromosome number chromosomes clones differentiation	diploid DNA polymerase DNA replication DNA sequence histones karyotype mutation	primer sex chromosomes sister chromatids 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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AN Whitehead

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