## 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 (6th 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	diploid	primer
centromere	DNA polymerase	sex chromosomes
chromosome number	DNA replication	sister chromatids
chromosomes	DNA sequence	somatic cell nuclear transfer
clones	histones	(SCNT)
differentiation	karyetype	
	mutation	

- 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?
  - o What did Wat son 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
  - o 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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