

# BIO 189 Midterm Study Guide

It is recommended that you review this study guide to prepare for your midterm in the next module. The midterm cover learning concepts in Modules 1-4 (Chapters 1-4, 6 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 1: Introduction to Biology

### Key Terms – Chapter 1

animals archaea atom bacteria biology biosphere cell Community consumer control group critical thinking	data development DNA ecosystem Eukaryotes experiment experimental group fungi genus growth	homeostasis hypothesis inheritance law of nature model molecule nutrient organ organism organ system	photosynthesis plants population prediction probability producer prokaryotes protist pseudoscience reproduction sampling error	science scientific method scientific theory species statistically significant taxon taxonomy tissue traits variable
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- **Explain biology as a process of scientific discovery**
  - What is the study of life? What is pseudoscience? Describe some examples of each.
- **Determine the levels of organization of matter**
  - What are each of the levels of organization? Recognize which levels are most or least inclusive?
  - Describe the differences between a population, community, and ecosystem.
- **Describe the underlying characteristics that unite all living things**
  - What are the major principles of living things?
    - What is the difference between a producer and a consumer?
    - What is homeostasis?
  - How does energy move within an ecosystem? Is heat a usable energy source?
  - What is a nutrient? How do nutrients move within an ecosystem?
  - What is the purpose of DNA?
- **Explain the taxonomic organization of the three domains of living things based on cellular structure: Archaea, Bacteria and Eukarya**
  - What are characteristics of the three Domains?
  - What are the characteristics of a prokaryotic cell?
  - What are the characteristics of a eukaryotic cell? What components are found in both prokaryotes and eukaryotes?
    - What are the four main groups of eukaryotes?
  - The Linnaean System
    - How are species classified? What are the components of the scientific name?
    - What techniques to biologists use to determine the species of living things? What is the biological species concept?
- **Apply experimental design by analyzing the design components of experiments for cause and effect relationships**

# Bio 48 Study Guide Answers

**Roman Wölfel**



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