

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 covers learning concepts in Modules 1-3 (Chapters 1-4, & 16) *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.
 - **Biology is the study of life**
 - **Pseudoscience is a collection of beliefs or practices mistakenly regarded as being based on scientific method.** Ex: religion
- **Determine the levels of organization of matter**
 - What are each of the levels of organization? Recognize which levels are most or least inclusive?
 - **Cells, tissues, organs, organ systems, organisms, populations, communities, ecosystems, biosphere**
 - Describe the differences between a population, community, and ecosystem.
 - **Population:** group of interbreeding individuals of the same species in a given area
 - **Community:** consists of all populations of all species in a given area
 - **Ecosystem:** a community interacting with its environment through energy transfer
- **Describe the underlying characteristics that unite all living things**
 - What are the major principles of living things?
 - **all living things require ongoing inputs of energy and raw materials**
 - **all living things sense and respond to change (homeostasis)**
 - **all living things use DNA as the carrier of genetic information**
 - What is the difference between a producer and a consumer?
 - **Producer:** makes its own food using energy from sunlight or self
 - **Consumer:** obtains energy and nutrients by feeding on other organisms
 - What is homeostasis?
 - **Process in which cells and organisms keep their internal conditions within tolerable ranges by sensing and responding to change in external conditions**

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