

# BIO 189 Midterm Study Guide

It is recommended that you review this study guide to prepare for your midterms in the next module. This midterms covers learning concepts in modules 3-10 (Chapters 10-14 in *Principles of Biology* 10th edn). As a reminder, you can access the readings through the Read section of each module. **Module specific terms** can be searched within the module for utilizing the search bar located in the upper right-hand corner of the screen.

## Module 1: Introduction to Biology

### Key Terms — Chapter 1

animal	data	photosynthesis	photosynthesis	polysaccharide
anthropologist	development	photosynthesis	photosynthesis	polysaccharide
atom	DNRA	photosynthesis	photosynthesis	polysaccharide
bacteriologist	ecosystem	photosynthesis	photosynthesis	polysaccharide
biologist	ecosystem	photosynthesis	photosynthesis	polysaccharide
biomesphere	ecosystem	photosynthesis	photosynthesis	polysaccharide
cell	ecosystem	photosynthesis	photosynthesis	polysaccharide
community	ecosystem	photosynthesis	photosynthesis	polysaccharide
consumer	ecosystem	photosynthesis	photosynthesis	polysaccharide
controlled group	ecosystem	photosynthesis	photosynthesis	polysaccharide
comparative thinking	ecosystem	photosynthesis	photosynthesis	polysaccharide

- Explain **biology** as a process of scientific discovery:
  - What is the structure of DNA? What is pseudoscience? Describe seven branches of study.
  - **Biology** is the study of life.
  - The **scientific method** is a collection of the tools or practices undertaken by scientists as they go about their work. See **method**.
- Differentiate the levels of organization of matter:
  - What are each of the levels of organization? Recognize which levels are made up of cells? Individuals?
    - Cells, tissues, organs, organ systems, organisms, populations, communities, ecosystems, biomes
  - Describe the differences between a population, community, and ecosystem.
    - Population: group of individuals belonging to 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 energy inputs for energy and raw materials
    - All living things sense and respond to changes (homeostasis)
    - All living things use DNA as the carrier of genetic information
  - What is the difference between a producer and a consumer?
    - Producers make their own food using energy from sunlight or soil
    - Consumers obtain energy and materials 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 changes in external conditions

## Bio Guide Answer Key

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