

CHAPTER 1 – LEARNING OBJECTIVES

After completing this chapter, the successful student will be able to:

1. Define life.
2. Discuss biological hierarchy.
3. Define and explain producers, consumers, and decomposers and how they are related.
4. Understand how energy flows through an ecosystem.
5. Understand how chemicals cycle through an ecosystem.
6. Understand that structure and function are often related in biology.
7. Describe the importance of cells to life.
8. Describe the differences between prokaryotic and eukaryotic cells.
9. Explain what DNA is and why it is important to life.
10. Describe what a “feedback mechanism” is.
11. Define the taxonomic classification system used for organizing life and explain the basis for classification.
12. Discuss the basics of evolution.
13. Compare and contrast discovery and hypothesis based science.
14. Discuss the coral snake experiment.
15. Compare and contrast science and technology.