

**University of the Philippines Manila
College of Arts and Sciences
Department of Biology**

**BS Biology
Biology 160
Ecology**

STUDY GUIDE: WEEK 5

Learning Objectives

At the end of this week, you should be able to:

1. Describe the nature of the terrestrial, freshwater and marine ecosystems
2. Discuss the various physical and chemical factors affecting the nature of life in the terrestrial, freshwater and marine ecosystems
3. Differentiate the various biomes according to the climatic factors affecting them and the characteristic vegetation and fauna
4. Differentiate the various freshwater ecosystems according to the factors affecting them and the kind of life present in each of them
5. Differentiate the various marine ecosystems according to the factors affecting them and the kind of life that thrive in each of them

Activity 1: Study the powerpoint presentation on the following.

Lecture 16. Terrestrial Ecosystem
Lecture 17. Freshwater Ecosystems
Lecture 18. Marine Ecosystems

The above lectures follow the same outline as follows.

- I. Description of the Terrestrial, Freshwater and Marine Ecosystems
- II. Explanation of the Factors Affecting the Ecosystems
- III. Differentiation of the Various Types of Habitats/Ecosystems or Biomes under Each
- IV. Characterization of the Life Forms in the various ecosystems

Activity 2: After going through and understanding the three lectures, try to answer the following questions.

1. Describe in detail the importance of the three types of ecosystems in terms of maintaining equilibrium on earth.
2. Describe how human intrusions have significantly affected each of the ecosystems.
3. Propose measures to strike a balance between development and maintaining integrity of the ecosystems.