Chapter 54: Community Ecology

54.1 Define a community and the main types of interspecific interactions.

54.2 Characterize the key components of species diversity and trophic structure in biological communities.

54.3 Describe the roles of disturbance and ecological succession in affecting species diversity and composition.

54.4 Describe the biogeographic influences of latitude and area on community diversity.

54.5 Define pathogens and explain how they influence biological communities.

This chapter focuses on interactions at the community level and will take you through concepts that you have studied before as well as introduce you to new and interesting ideas such as island biogeography, keystone species, and diversity indexes. The diversity of species within an ecosystem may influence the stability of an ecosystem and is affected by a number of factors, including human activities.

Study Tip: Use Figure 54.1 in the text to describe each of the factors below.

Factors That Influence the Structure of a Community		
Foundation Species	Interactions between Species	Disturbances

There are three primary factors that affect community structure and will be discussed throughout this chapter. List them below.

a.

b.

c.

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Thomas Griffiths

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