**CHAPTER 4 STUDY OUTLINE**

**ECOSYSTEMS AND COMMUNITIES**

4.2 Niches and Community Interactions (pages 99-104)

1. The Niche
   1. Tolerance
   2. Defining the Niche
      1. Resources and the Niche
      2. Physical Aspects of the Niche
      3. Biological Aspects of the Niche
2. Competition
   1. The Competitive Exclusion Principle
   2. Dividing Resources
3. Predation, Herbivory, and Keystone Species
   1. Predator-Prey Relationships
4. Symbioses
   1. Mutualism
   2. Parasitism
   3. Commensalism

4.3 Succession (pages 106-109)

1. Primary and Secondary Succession
   1. Primary Succession
   2. Secondary Succession
   3. Why Succession Occurs
2. Climax Communities
   1. Succession After Natural Disturbances
   2. Succession After Human-Caused Disturbances