## Chapter 8: Understanding Populations Lecture Guide, Day Two

#### An Organism's Niche

- A \_\_\_\_\_\_\_ is the unique position occupied by a species, both in terms of its physical use of its habitat and its function within an ecological community.
- A niche can also be thought of as the \_\_\_\_\_\_ of a particular species in an ecosystem.

## Symbiosis and Coevolution

\_\_\_\_\_\_ is a relationship in which two different organisms live in close association with

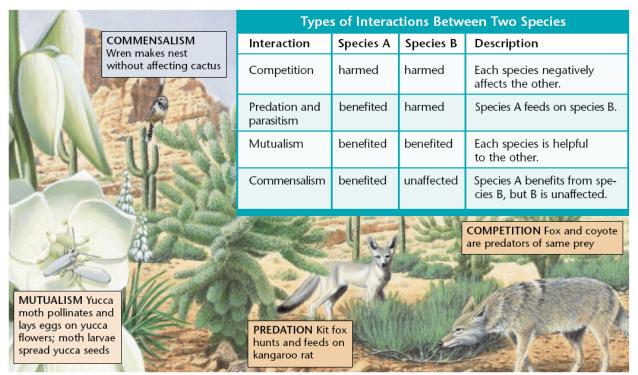
\_\_\_\_\_ of the relationship.

each other.

- Symbiosis is most often used to describe a relationship in which
- These species may evolve adaptations that

Ways in Which Species Interact

- Interactions between species are categorized at the level where one population interacts with another.
- The five major types of species interactions are:
  - •
  - •
  - •



# Which Species Interact

resources because they occupy the same niche.

## **Indirect Competition**

- For example, suppose that one insect feeds on a certain plant during the day and that another species feeds on the same plant during the night.

## Adaptations to Competition

But in the course of evolution, adaptations that \_\_\_\_\_will
also be advantageous for species whose niches overlap.

\_\_\_\_\_ in time or space.

One way competition can be reduced between species is by

## Adaptations to Competition

\_\_\_\_\_ is when each species uses less of the niche than

they are capable of using.

#### Predation

\_\_\_\_\_ is an interaction between two species in which one

species, the predator, feeds on the other species, the prey.

#### Parasitism

- An organism that lives in or on another organism and feeds on the other organism is a
  - Examples include ticks, fleas, tapeworms, heartworms, and bloodsucking leeches.
- The organism, the parasite, takes its nourishment from is known as the \_\_\_\_\_\_
- \_\_\_\_\_ is a relationship between two species, the parasite, benefits from the other species, the host, and usually harms the host.

#### Parasitism

## Mutualism

• \_\_\_\_\_ is a relationship between two species in which both species benefit.

## Commensalism

\_\_\_\_\_ is a relationship between two organisms in which one organism benefits and

the other in unaffected.