

Objectives: by the end of this unit, students will...

- Describe what it means for an animal to be 'healthy'.
- Determine the difference between an infectious and a noninfectious disease.
- Determine the difference between a contagious and a non-contagious disease.
- Define: disease, pathogen, host, vector, virulence, environment.
- Summarize how a host's defense mechanisms prevent a disease from occurring and why these mechanisms sometimes break down.
- Identify and explain the parts of a disease triangle and how they affect disease transmission.
- Summarize the difference between resistance and immunity.
- Summarize the difference between active and passive immunity as well as natural and artificial active immunity.
- Explain how antigens and antibodies interact in order to create immunity in an organism.
- Summarize how herd immunity works and how it affects the health of a group of organisms.
- Define and explain the differences between each of the following:
  - a. Pandemic
  - b. Endemic
  - c. Epidemic
  - d. Zoonotic