

Population Ecology

Learning Objectives

- Define ecology and population
- Become familiar with the different branches of ecology
- Learn the components that make up the environment
- Know the three basic processes involved in population ecology
- Understand growth rate--exponential growth, and logistic growth
- Explain population dynamics
- Look at patterns of population density
- Explore methods of assessing population density
- Study life tables and survivorship curves
- Be able to make inferences about a given set of population data
- Explore human population growth

NOTE: You should be able to meet these objectives by coming to class, participating in clicker activities, and reviewing class notes.

- I. Be able to define ecology.
 - a. Know what the different areas of ecological study are and how they compare.
 - i. Organismal—one organism's interaction with its environment (biotic and abiotic)
 - ii. Population—interactions between members of the same species with each other and their environment.
 - iii. Community—interactions between populations and their environment
 - iv. Ecosystem—interactions between communities and the climatic conditions of an entire region
 - v. Landscape—effects of spatial distributions in an area that can affect a species
- II. Know the components that make up the environment.
 - a. Biotic
 - b. Abiotic
 - c. Classify these components as density-dependent/independent
 - i. Be able to give examples of density-dependent/independent factors
 - ii. Be able to identify density-dependent/independent factors
- III. Be able to define a population and its three key characteristics. These characteristics are embedded in the study of populations.
 - a. Range—geography/location
 - b. Spacing—see dispersion patterns
 - c. Change in size over time—demography and population growth
- IV. Know the three main processes used to study populations and be able to define each.

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Ian Pickup

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