

Integrative Biology 102: Lecture Outline Human Population Dynamics

Lecture Objectives

By the end of the lecture (and reading the online text), you should be able to:

1. graph human population growth over time.
2. list factors important in changing population growth rates.
3. analyze how population pyramids can predict future population growth.
4. explain why the carrying capacity of the earth for human populations has changed.
5. list factors that affect population growth and explain how these factors affect growth.
6. summarize different worldviews of how human population growth can be controlled.

Reading: Ch. 7

Terms

- carrying capacity
- cultural cc
- population pyramid
- pronatalist pressures
- demographics

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1. Human population growth through the years

2. Where growth is occurring

- * population pyramids

- * more developed vs less developed countries

- * U.S. population

3. Factors affecting growth

4. Carrying Capacity?

5. Controlling population growth

For the next lecture on *Plant Structures for Capturing Energy & Matter*, read pages 37 (starting at Roots) to page 44 (ending at Vegetables: Edible Plant Organs) in Levetin & McMahon Chapter 3. Be ready to answer these questions in lecture:

- In what ways have roots evolved for most efficient uptake of nutrients?
- How do carbon dioxide and water get delivered to the leaf for use in photosynthesis?