

CUMBERLAND COUNTY COLLEGE

Course: BI 119 Introduction to Biology

Credits: 3

Description:

Offers the non-science major to selected topics in chemistry, cells, genetics, evolution and diversity and ecology. Among the topics discussed will be the role of chemistry in biology; cellular functions; the role of DNA and genes in patterns of inheritance; the evolution and diversity of plants, fungi and animals; and communities and ecosystems.

Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Discuss basic chemistry and describe the role that chemistry has on everyday life.
- Identify the basic structures of the cell and describe the function of each.
- Discuss basic genetics and describe the role genetics has on the lives of all living beings.
- Explain the theory of evolution and describe how living things have evolved through time.
- Discuss biological diversity and explain the classification of living things.
- Characterize ecosystems and the relationship between organisms and their environment.

Topical Outline:

- Biology Today
- Essential Chemistry for Biology
- The Molecules of Life
- A Tour of the Cell
- The Working Cell
- Cellular Respiration: Obtaining Energy from Food
- Photosynthesis: Using Light to Make Food
- Cellular Reproduction: Cells from Cells
- Patterns of Inheritance
- The Structure and Function of DNA
- How Genes are Controlled
- DNA Technology
- How Populations Evolve
- How Biological Diversity Evolves
- The Evolution of Plants and Fungi
- The Evolution of Animals
- An Introduction to Ecology and the Biosphere
- Population Ecology
- Communities and Ecosystems

Text:

Simon, e., Dickey, J., Hogan, K., Reece, J., Campbell, N. (2016). Essentials of Biology 6th Ed. Pearson.

Academic Integrity

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense.

As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

Tutoring & Project Assist

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

Before Withdrawing From This Course

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) BEFORE withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA which can limit or eliminate future financial aid in addition to causing academic suspension.