

## CUMBERLAND COUNTY COLLEGE

Course: BI 102 General Biology II

Credits: 4

Prerequisite: BI 101

Description:

An integrated course with laboratory exercises closely correlated to the lectures dealing with natural selection, evolution and plants and animals.

Learning Outcomes:

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

- Examine the concepts of natural selection and evolution.
- Describe the various types of plants
- Describe the various types of animals
- Utilize various qualitative and quantitative problem-solving and critical thinking techniques to perform experimental procedures and analyze experimental data related to the fields listed above;
- Demonstrate proper use of the standard tools of the biological scientist; and
- Use the scientific method of inquiry through the acquisition of scientific knowledge.

Topical Outline:

- Evolution by natural selection
- Evolutionary processes
- Speciation
- Phylogenies and the history of life
- Bacteria and archaea
- Protists
- Green algae and land plants
- Plant form and function
- Water and sugar transport in plants
- Plant nutrition
- Plant sensory systems, signals, and responses
- Plant reproduction
- Fungi
- An introduction to animals
- Protostome animals
- Deuterostome animals
- Animal Form and function
- An Introduction to ecology
- Biodiversity and conservation biology

Text:

Freeman, S., Quillin, K., Allison, L. (2014). *Biological Science* (5<sup>th</sup> 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.