

## CUMBERLAND COUNTY COLLEGE

Course: BI 118 Introduction to Biology Laboratory

Credits: 1

Co-requisite:

BI 119 Introduction to Biology

Description

Provides students with laboratory experience in the topics covered in BI 119 Introduction to Biology lectures. In these laboratory sessions, students will gain hands-on experience in selected topics in biology. Among the topics studied in the laboratory will be the scientific method, cell structure and function, basic genetics, DNA technology, natural selection, biodiversity and the components of an ecosystem.

Learning Outcomes:

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

- Apply the scientific method, analyze a problem and draw conclusions from the data and evidence.
- Demonstrate proper microscopy and measurement associated with biological laboratory activities.
- Describe basic cell chemistry and explain the correlation between cell structure and function.
- Discuss the genetic basis of life.
- Define the theory of evolution and explain the role of natural selection on the evolution of a species.
- Discuss biological diversity and explain the classification of living things.
- Describe ecosystems, identify the major types and explain the relationship between organisms and their environment.

Topical Outline:

- Scientific Method
- Metric Measurements and Microscopy
- Chemical Composition of Cells
- Cell Structure and Function
- Mendelian Genetics
- DNA Technology
- Theory of Evolution
- Biological Diversity
- Ecosystems

Textbook:

Laboratory Manual for Biology, by Sylvia S. Mader, 11<sup>th</sup> Edition

### 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.