

# BIO 115L - GENERAL BIOLOGY I LAB

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## Course Description

See BIO 115 for course description.

## Credit Hours

0

## Contact Hours

0

## Lab Hours

3

## Corequisites

BIO 115

## General Education Outcomes supported by this course

Quantitative Reasoning

## Course Learning Outcomes

### Knowledge:

- Illustrate examples of the diversity of life that have changed over time through mutations and selection (evolution).
- Recognize that basic units in biological systems define the functions of all living things (structure and function).
- Recognize the influence of genetics on the control evolution and behavior of organisms (information flow, exchange and storage).
- Associate the ways in which chemical transformation pathways and the laws of thermodynamics govern the growth and change of biological systems (pathways and transformations of energy and matter).
- Predict the ways in which living things are interconnected and interact with one another (systems).

### Application:

- Conduct laboratory and field experiments (process of science).
- Communicate results of research projects to a broader audience (process of science).
- Interpret data from primary and secondary sources (quantitative reasoning).
- Apply models and simulations to complex systems (modeling and simulation).

### Integration:

- Link the impact of various disciplines and subdisciplines to and within the field of biology (interdisciplinary nature of science).

### Human Dimension:

- Take responsibility for applying ethical principles in relation to the nonhuman world.
- See oneself as a positive contributing member of a team (be a good team member).

### Caring - Civic Learning:

- Get excited about a particular field or aspect of biology.
- Recognize the value the study of biology has to society (understand relationships between science and society).

### Learning How to Learn:

- Self monitor their own engagement in relation to performance on assessments.
- Take responsibility for their own learning.