

Course # BIOL 103 General Biology Lab

Credit Hours: 1

Scheduled hours per week

Lecture: 0

Lab: 2

Catalog Course Description: Introductory exercises and experiments in general biology to include basic lab safety, experimental design, biological chemistry, biological molecules, microscopy and cell structure, enzymes, osmosis and diffusion, cell reproduction, and genetics.

Pre-requisites: None

Co-requisites: BIOL 101

Course Learning Outcomes (CLO):

- Demonstrate the scientific method to specific laboratory investigations.
- Demonstrate evidence of safe laboratory procedures.
- Use qualitative tests to identify classes of biological molecules.
- Describe factors that affect enzyme activity.
- Describe factors that affect the rates of osmosis and diffusion.
- Describe and identify the stages of mitosis and meiosis.
- Apply the rules of inheritance to solve genetic problems.

CLO Assessment Methods:

Direct: Lab activities, exams, quizzes, projects, and written papers.

Indirect Methods: Course Evaluations

Topics to be studied:

- Lab safety
- Graphing and interpreting graphs
- The metric system
- Experimental design and interpretation
- Biological molecules
- Cell structure and function
- Enzyme function
- Cellular and organismal reproduction

- Patterns of inheritance
- Evolution and natural selection

Relationship of Course to Program Learning Outcomes (PLO) or Institutional Learning Outcomes:

Check if approved as: Foundational Learning Course Reinforcement Learning Course

Special requirements of the course:

N/A

Additional information:

N/A

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